

Intermediate Education Board for Ireland.

RULES OF EXAMINATIONS

PROGRAMME OF EXAMINATIONS FOR 1902.

PRESENTED IN PURSUANCE OF ACT

(41 and 42 Vict., cap. 66, sec. 6, and 63 and 64 Vict., cap. 43, sec. 1).

Ordered, by The House of Commons, to be Printed, June 10, 1901.

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1901.

Intermediate Education Board for Ireland,

Intermediate Education (Ireland) Acts, 1878 to 1900.

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1, Hume-street, Dublin.*

Intermediate Education Board for Ireland.

NOTICES.

THE RULES AND PROGRAMME FOR 1902.

THE RULES.

Speaking generally, the new Rules are intended to give effect to the more important recommendations contained in the Final Report of the Intermediate Education Commission, Ireland, 1899.

It is not possible to contrast the present Rules with those now in force, as nearly every one of these has been altered. Managers of Schools are requested to make themselves thoroughly acquainted with the Rules and Programme now published.

STAMPED FORMS OF NOTICE OF INTENTION TO PRESENT FOR EXAMINATION IN 1902. (Rule 17.)

These Forms can be obtained *only* from the several Stamp Distributors and Postmasters authorized to sell Inland Revenue Stamps throughout Ireland, and in Dublin from the Licensed Vendors of Stamps; *they are not procurable at the Office, 1 Hume-street.*

In pursuance of the Rules, Forms will be on Sale as follows :—

CLASS A, FEBRUARY FORMS—*Price 2/6 each Form, to be on sale from 1st to 28th February, inclusive, but not after the latter date.*

STUDENTS OF THE PRESCRIBED AGES.

BOYS.

Preparatory Grade,	Boys,	green paper
Junior	do.	white paper.
Middle	do.	blue paper.
Senior	do.	red paper.

GIRLS.

Preparatory Grade,	Girls,	green paper.
Junior	do.	white paper.
Middle	do.	blue paper.
Senior	do.	red paper.

CLASS B, MARCH FORMS—*Price 10/- each Form, to be on sale from 1st to 30th March, inclusive, but not after the latter date.*

STUDENTS OF THE PRESCRIBED AGES.

BOYS.			GIRLS.		
Preparatory Grade,	Boys,	green paper.	Preparatory Grade,	Girls,	green paper.
Junior	do.	do. white paper.	Junior	do.	do. white paper.
Middle	do.	do. blue paper.	Middle	do.	do. blue paper.
Senior	do.	do. red paper.	Senior	do.	do. red paper.

EVIDENCE OF AGE. (Rules 17 and 18.)

Evidence of age should accompany the Notice in the case of every Student who presents for examination for the first time.

Such evidence of age should be securely attached to the notice to which it refers by a pin or paper-fastener.

The Board will accept as satisfactory evidence of age a certified extract from a Public Registry of Births, and if such certified extract cannot be obtained, the Board will accept a Statutory Declaration from a parent or guardian stating, in the prescribed form, the date of birth, and also specifying (a) declarant's means of knowledge of the date of birth as so stated, and (b) the reasons on account of which a certified extract from a Public Registry of Births cannot be obtained.

Baptismal Certificates will not be accepted as evidence of age.

Here "Certificates of Registry of Birth" will not be accepted as evidence of age.

A—CERTIFIED EXTRACTS FROM A PUBLIC REGISTRY OF BIRTHS.

Application for such extract, in the case of any person born in Ireland, should be made to the Registrar-General, Charlemont House, Dublin, or to the Clerk of the Union in which the birth took place, or to the local Registrar of Births. Fee, 3s. 7d.

Under no circumstances should any additions to, or alterations in, such Certified Extract be made after its issue by a Registrar.

If the Christian name of the Student be not given in the Certified Extract, such Extract must be supplemented by a statement by a parent or guardian identifying the Student who signs the Notice of intention to present for Examination with the person whose Certificate of Birth is furnished.

Forms for such statements can be obtained on application to the Assistant Commissioners.

FORMS FOR STATUTORY DECLARATION AS TO AGE. (Rule 18.)

No statutory declaration as to age, offered in lieu of an extract from a public registry of births will be received except on the Form specially provided by the Board and supplied from the Office.

Applications for these Forms must be accompanied by a Postal or Post Office Order (made payable to the Assistant Commissioners) for the Stamp Duty of 2s. 6d., payable on each Form: Postage Stamps or Cheques will not be accepted.

STUDENTS WHO PREVIOUSLY FURNISHED EVIDENCE OF AGE.

In the case of a Student who gave notice of intention to present for Examination in a previous year, and furnished satisfactory Evidence of Age, such evidence need not again be furnished.

RETURN OF CERTIFICATES OF AGE TO STUDENTS.

All Certificates of Age are retained in the Office for twelve months after the expiration of which time they will be returned if then applied for—the application to be accompanied by a stamped directed envelope, and a statement of the year in which the Certificate was lodged in the Office.

Forms of Application for Return of Certificates of Age can be obtained from the Office.

DATES ON WHICH APPLICATIONS FOR THE EXAMINERSHIPS AND APPLICATIONS FOR CENTRE SUPERINTENDENT- SHIPS SHOULD BE SENT TO THE BOARD.

These dates will be found in the Official Calendar prefixed to the Rules.

THE BURKE MEMORIAL PRIZES.

(Rule 7.)

Amended rules in relation to the Burke Memorial Prizes will be hereafter framed and published by the Board.

T. J. BELLINGHAM BRADY,
SWIFT PAINE JOHNSTON,

Assistant Commissioners.

1, HUME-STREET, DUBLIN,
June, 1901.

CONTENTS.

	PAGE
OFFICIAL CALENDAR - - - - -	6
RULES - - - - -	9
SECTION I.—General Provisions regarding the Examinations -	9
SECTION II.—Special Regulations as to Experimental Science and Drawing, Drawing, Domestic Economy, and Botany -	16
SECTION III.—Students eligible for Examination -	17
SECTION IV.—Notices and declarations to be sent in by students, and by Managers, and other matters preliminary to the Examinations - - - - -	18
SECTION V.—Conduct of students during the Examination -	19
SECTION VI.—Conditions of passing the Examination in particular subjects - - - - -	20
SECTION VII.—Conditions of passing the Examination in the Preparatory Grade - - - - -	21
SECTION VIII.—Conditions of passing the Examination in the higher Grades - - - - -	21
SECTION IX.—Honours, Exhibitions, Prizes and Medals -	24
SECTION X.—Minor Prizes - - - - -	27
SECTION XI.—Retention of Exhibitions awarded in the years 1900 and 1901. Resumption of Exhibitions - -	27
SECTION XII.—Results of the Examinations: Certificates -	28
SECTION XIII.—The School Grant - - - - -	29
SECTION XIV.—Special Powers of the Board in cases of Accidents or Breaches of Rules - - - - -	31
SECTION XV.—Advances to Managers, and Accounts -	32
SECTION XVI.—Definitions and General Provisions -	33
SCHEDULE A. - - - - -	34

PROGRAMME OF EXAMINATIONS FOR 1902 :—

Preliminary Notes applicable to all Grades	-	-	-	39
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Preparatory Grade :—

Greek	-	-	-	-	-	-	40
Latin	-	-	-	-	-	-	40
English Composition	-	-	-	-	-	-	40
English	-	-	-	-	-	-	41
Irish	-	-	-	-	-	-	41
French	-	-	-	-	-	-	41
German	-	-	-	-	-	-	42
Italian	-	-	-	-	-	-	42
Arithmetic	-	-	-	-	-	-	42
Geometry	-	-	-	-	-	-	42
Algebra	-	-	-	-	-	-	42

Junior Grade :—

Greek	-	-	-	-	-	-	43
Latin	-	-	-	-	-	-	43
English Composition	-	-	-	-	-	-	44
English	-	-	-	-	-	-	44
Irish	-	-	-	-	-	-	45
French	-	-	-	-	-	-	45
German	-	-	-	-	-	-	46
Italian	-	-	-	-	-	-	46
Spanish	-	-	-	-	-	-	46
Arithmetic	-	-	-	-	-	-	47
Book-keeping	-	-	-	-	-	-	47
Geometry	-	-	-	-	-	-	47
Algebra	-	-	-	-	-	-	47
Algebra and Arithmetic	-	-	-	-	-	-	48
Experimental Science and Drawing	-	-	-	-	-	-	48
Botany	-	-	-	-	-	-	48
Music (Theory of)	-	-	-	-	-	-	48
Domestic Economy	-	-	-	-	-	-	48
Drawing	-	-	-	-	-	-	48
Shorthand	-	-	-	-	-	-	48

Middle Grade :—

Greek	-	-	-	-	-	-	49
Latin	-	-	-	-	-	-	49
English Composition	-	-	-	-	-	-	50
English	-	-	-	-	-	-	50
Irish	-	-	-	-	-	-	50
French	-	-	-	-	-	-	51
German	-	-	-	-	-	-	51

	PAGE
Middle Grade— <i>continued</i> .	
Italian - - - - -	51
Spanish - - - - -	52
Arithmetic - - - - -	52
Book-keeping - - - - -	52
Geometry - - - - -	52
Algebra - - - - -	53
Algebra and Arithmetic - - - - -	53
Experimental Science and Drawing - - - - -	53
Botany - - - - -	53
Music (Theory of) - - - - -	53
Domestic Economy - - - - -	53
Drawing - - - - -	53
Shorthand - - - - -	53
Senior Grade :—	
Greek - - - - -	54
Latin - - - - -	54
English Composition - - - - -	55
English - - - - -	55
Irish - - - - -	55
French - - - - -	56
German - - - - -	56
Italian - - - - -	56
Spanish - - - - -	57
Geometry - - - - -	57
Algebra - - - - -	57
Trigonometry - - - - -	57
Geometry and Trigonometry - - - - -	58
Experimental Science and Drawing - - - - -	58
Botany - - - - -	58
Music (Theory of) - - - - -	58
Domestic Economy - - - - -	58
Drawing - - - - -	58
Shorthand - - - - -	58

EXTRACT FROM THE REGULATIONS OF THE DEPARTMENT OF
AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND - 61

THE INTERMEDIATE EDUCATION BOARD FOR IRELAND.

OFFICIAL CALENDAR.

I. IN REFERENCE TO THE EXAMINATIONS OF JUNE, 1901.

1901.
Oct. 15. Latest day for sending to the Board Claims for Results Fees, 1901. [See Rule 70 (c) Rules and Programme, 1901.]

II. IN REFERENCE TO THE EXAMINATIONS OF JUNE, 1902.

- Sept. 1. Earliest day for sending to the Board Applications for Examinerships.
- Oct. 15. Latest day for sending to the Board Applications for Examinerships.
- Nov. 1. Latest day for sending to the Board the Lists of Students on School-Roll. [See Rule 57 (b), (c), (d).]
1902.
Jan. 1. Earliest day for sending to the Board Applications for Centre Superintendentships.
- Feb. 15. Latest day for sending to the Board Applications for Centre Superintendentships.
- Feb. 28. Latest day for sending to the Board Students' Notices of intention to present themselves for examination (together with satisfactory evidence of age) stamped with an Intermediate Education Stamp of 2s. 6d. [See Rule 17.]

- March 31. Latest day for sending to the Board Students' Notices of intention to present themselves for examination (together with satisfactory evidence of age) stamped with an Intermediate Education Stamp of 10s. [See Rule 17.]
- May 1. Earliest day for sending to the Board Students' Declarations as to their having pursued a course of study in Ireland. [See Rule 21.]
- May 21. Latest day for sending to the Board Students' Declarations as to their having pursued a course of study in Ireland. [See Rule 21.]
- Oct. 15. Latest day for sending to the Board Claims for School Grant, 1902. [See Rule 57 (f).]

III. IN REFERENCE TO THE EXAMINATIONS OF JUNE, 1903.

- Nov. 1. Latest day for sending to the Board the Lists of Students on School-Roll [See Rule 57 (b), (c), (d).]

SPECIAL NOTICE TO MANAGERS OF SCHOOLS.

As the entire system of payment to Schools is now based on the "Intermediate School Roll," it will be necessary that Managers shall adhere with the utmost strictness to the Rules in Section XIII. regulating the transmission of such Roll to the Office.

It must be distinctly understood that the Board have no power to permit a List of Students on the Roll of the School to be received, or names to be added thereto, after the prescribed date, unless under very exceptional circumstances, and in no case without the infliction of a fine.

Intermediate Education Board for Ireland.

RULES.

The Intermediate Education Board for Ireland, in pursuance and by virtue of the "Intermediate Education (Ireland) Acts, 1878 to 1900," do hereby, with the approval of His Excellency GEORGE HENRY, EARL CADOGAN, Lord Lieutenant General and General Governor of Ireland, make the following Rules for the purposes of the said Acts:—

SECTION I.

General Provisions regarding the examinations.

Examinations shall be held in accordance with the following rules:—

1. There shall be the following Grades, Courses, and Groups of subjects, viz.:—

A. a Preparatory Grade, introductory to both the Grammar School Course and the Modern Course, without Honours, Prizes or Exhibitions. *Preparatory Grade.*

B. two distinct Pass and Honour Courses— *Pass and Honours.*

- (i.) the Grammar School Course;
- (ii.) the Modern Course.

C. three distinct Groups of subjects for Prizes and Exhibitions, viz.:— *Prizes and Exhibitions.*

- (i.) the Classical Group;
- (ii.) the Modern Literary Group;
- (iii.) the Science Group.

Students in each of the above Courses and Groups shall consist of three Grades, viz.:—

- the Junior Grade;
- the Middle Grade;
- the Senior Grade.

There shall be no competition between students in different Groups.

Examinations to be held.

2. In each Grade and Course examinations shall be held in each year, between the first day of June and the first day of August, at convenient centres, to be selected by the Board with the approval of the Lord Lieutenant.

Date of Examination.

3. The Board shall, in each year, give public notice of the dates on which the examinations will be held.

Examinations by printed papers.

4. All the examinations, except those held by the Department of Agriculture and Technical Instruction for Ireland, shall be conducted by printed papers, unless when otherwise directed in the programme.

Examination of Girls.

5. The examination of girls shall, as a rule, be held apart from that of boys.

Programme of Examinations.

6. The Board shall annually publish a programme of the examinations, setting forth in detail the several subjects of examination, with such other information as they may deem desirable. The price of such publication shall be fixed by the Board.

Burke Memorial Prizes.

7. Amended rules in relation to the Burke Memorial Prizes will be hereafter framed and published by the Board.

Subjects of the Pass Examination.

8. The following shall be the subjects of the Pass examination and the percentages of marks required for a pass in each subject :—

PREPARATORY GRADE.

BOYS.		GIRLS.	
	Percentage of Marks required for a Pass.		Percentage of Marks required for a Pass.
(1) The ancient language, literature, and history of Greece ;	30	(1) The ancient language, literature, and history of Greece ;	30
(2) The ancient language, literature, and history of Rome ;	40	(2) The ancient language, literature, and history of Rome ;	40
(3) English Composition ;	40	(3) English Composition ;	40
(4) The English language and literature, and the history of Great Britain and Ireland , and geography;	40	(4) The English language and literature, and the history of Great Britain and Ireland , and geography;	40
(5) The Irish language;	40	(5) The Irish language;	40
(6) The French language;	40	(6) The French language;	40
(7) The German language;	30	(7) The German language;	30
(8) The Italian language;	40	(8) The Italian language;	40
(9) The Spanish language;	40	(9) The Spanish language;	40

PREPARATORY GRADE.—*continued.*

BOYS.	Percentage of Marks required for a Pass	GIRLS.	Percentage of Marks required for a Pass
(10) Arithmetic;	40	(10) Arithmetic;	40
(11) Geometry;	40	(11) Geometry;	40
(12) Algebra;	40	(12) Algebra;	40
(13) Experimental Science and Drawing; *		(13) Experimental Science and Drawing; *	
(14) Drawing.*	40	(14) Drawing.*	40

Grammar School Course.

JUNIOR GRADE

BOYS.	Percentage of Marks required for a Pass	GIRLS.	Percentage of Marks required for a Pass
(1) The ancient language, literature, and history of Greece;	30	(1) The ancient language, literature, and history of Greece;	30
(2) The ancient language, literature, and history of Rome;	40	(2) The ancient language, literature, and history of Rome;	40
(3) English Composition;	40	(3) English Composition;	40
(4) The English language and literature, and the history of Great Britain and Ireland, and geography;	40	(4) The English language and literature, and the history of Great Britain and Ireland, and geography;	40
(5) The Irish language and history;	40	(5) The Irish language and history;	40
(6) The French language and history;	40	(6) The French language and history;	40
(7) The German language and history;	30	(7) The German language and history;	30
(8) The Italian language and history;	40	(8) The Italian language and history;	40
(9) The Spanish language and history;	40	(9) The Spanish language and history;	40
(10) Arithmetic;	40	(10) Arithmetic;	40
(11) Geometry;	40	(11) Geometry;	40
(12) Algebra;	40	(12) Algebra;	40
(13) Theory of Music;	40	(13) Theory of Music;	40
(14) Experimental Science and Drawing; *		(14) Experimental Science and Drawing; *	
(15) Drawing; *	40	(15) Drawing; *	40
(16) Botany.*		(16) Botany; *	
		(17) Domestic Economy.*	

* See Rule 10.

MIDDLE GRADE.

BOYS.	Percentage of Marks required for a Pass.	GIRLS.	Percentage of Marks required for a Pass.
(1) The ancient language, literature, and history of Greece ;	30	(1) The ancient language, literature, and history of Greece ;	30
(2) The ancient language, literature, and history of Rome ;	40	(2) The ancient language, literature, and history of Rome ;	40
(3) English Composition ;	40	(3) English Composition ;	40
(4) The English language and literature, and the history of Great Britain and Ireland, and geography ;	40	(4) The English language and literature, and the history of Great Britain and Ireland, and geography ;	40
(5) The Irish language and history ;	40	(5) The Irish language and history ;	40
(6) The French language & history ;	40	(6) The French language & history ;	40
(7) The German language & history ;	30	(7) The German language & history ;	30
(8) The Italian language & history ;	40	(8) The Italian language & history ;	40
(9) The Spanish language & history ;	40	(9) The Spanish language & history ;	40
(10) Arithmetic ;	40	(10) Arithmetic ;	40
(11) Geometry ;	40	(11) Geometry ;	40
(12) Algebra ;	40	(12) Algebra ;	40
(13) Theory of Music ;	40	(13) Theory of Music ;	40
(14) Experimental Science and Drawing ; *		(14) Experimental Science and Drawing ; *	
(15) Drawing ; *	40	(15) Drawing ; *	40
(16) Botany.*		(16) Botany ; *	
		(17) Domestic Economy.*	

SENIOR GRADE.

BOYS.	Percentage of Marks required for a Pass.	GIRLS.	Percentage of Marks required for a Pass.
(1) The ancient language, literature, and history of Greece ;	40	(1) The ancient language, literature, and history of Greece ;	40
(2) The ancient language, literature, and history of Rome ;	40	(2) The ancient language, literature, and history of Rome ;	40
(3) English Composition ;	40	(3) English Composition ;	40
(4) The English language and literature, and the history of Great Britain and Ireland, and geography ;	40	(4) The English language and literature, and the history of Great Britain and Ireland, and geography ;	40
(5) The Irish language and literature ;	40	(5) The Irish language and literature ;	40
(6) The French language & history ;	40	(6) The French language & history ;	40
(7) The German language & history ;	30	(7) The German language & history ;	30
(8) The Italian language & history ;	40	(8) The Italian language & history ;	40
(9) The Spanish language & history ;	40	(9) The Spanish language & history ;	40
(10) Algebra ;	40	(10) Algebra ;	40
(11) Geometry ;	40	(11) Geometry ;	40
(12) Trigonometry ;	40	(12) Trigonometry ;	40
(13) Theory of Music ;	40	(13) Theory of Music ;	40
(14) Experimental Science and Drawing ; *		(14) Experimental Science and Drawing ; *	
(15) Drawing ; *	40	(15) Drawing ; *	40
(16) Botany.*		(16) Botany ; *	
		(17) Domestic Economy.*	

* See Rule 10.

Modern Course.

JUNIOR GRADE.

BOYS.

Percentage of
Marks required
for a Pass.

- | | |
|--|----|
| (1) The ancient language, literature, and history of Rome; | 40 |
| (2) English Composition; | 40 |
| (3) The English language and literature, and the history of Great Britain and Ireland, and geography | 40 |
| (4) The Irish language and history; | 40 |
| (5) The French language & history; | 40 |
| (6) The German language & history; | 30 |
| (7) The Italian language & history; | 40 |
| (8) The Spanish language & history; | 40 |
| (9) Arithmetic; | 40 |
| (10) Book-keeping; | 40 |
| (11) Geometry; | 40 |
| (12) Algebra; | 40 |
| (13) Theory of Music; | 40 |
| (14) Shorthand; | 40 |
| (15) Experimental Science and Drawing; * | |
| (16) Drawing; * | 40 |
| (17) Botany.* | |

GIRLS.

Percentage of
Marks required
for a Pass.

- | | |
|---|----|
| (1) The ancient language, literature, and history of Rome; | 40 |
| (2) English Composition; | 40 |
| (3) The English language and literature, and the history of Great Britain and Ireland, and geography; | 40 |
| (4) The Irish language and history; | 40 |
| (5) The French language & history; | 40 |
| (6) The German language & history; | 30 |
| (7) The Italian language & history; | 40 |
| (8) The Spanish language & history; | 40 |
| (9) Arithmetic; | 40 |
| (10) Book-keeping; | 40 |
| (11) Geometry; | 40 |
| (12) Algebra; | 40 |
| (13) Theory of Music; | 40 |
| (14) Shorthand; | 40 |
| (15) Experimental Science and Drawing; * | |
| (16) Drawing; * | 40 |
| (17) Botany; * | |
| (18) Domestic Economy.* | |

MIDDLE GRADE.

BOYS.

Percentage of
Marks required
for a Pass.

- | | |
|---|----|
| (1) The ancient language, literature, and history of Rome; | 40 |
| (2) English Composition; | 40 |
| (3) The English language and literature, and the history of Great Britain and Ireland, and geography; | 40 |
| (4) The Irish language and history; | 40 |
| (5) The French language & history; | 40 |
| (6) The German language & history; | 30 |
| (7) The Italian language & history; | 40 |
| (8) The Spanish language & history; | 40 |
| (9) Arithmetic; | 40 |
| (10) Book-keeping; | 40 |
| (11) Geometry; | 40 |
| (12) Algebra; | 40 |
| (13) Theory of Music; | 40 |
| (14) Shorthand; | 40 |
| (15) Experimental Science and Drawing; * | |
| (16) Drawing; * | 40 |
| (17) Botany.* | |

GIRLS.

Percentage of
Marks required
for a Pass.

- | | |
|---|----|
| (1) The ancient language, literature, and history of Rome; | 40 |
| (2) English Composition; | 40 |
| (3) The English language and literature, and the history of Great Britain and Ireland, and geography; | 40 |
| (4) The Irish language and history; | 40 |
| (5) The French language & history; | 40 |
| (6) The German language & history; | 30 |
| (7) The Italian language & history; | 40 |
| (8) The Spanish language & history; | 40 |
| (9) Arithmetic; | 40 |
| (10) Book-keeping | 40 |
| (11) Geometry; | 40 |
| (12) Algebra; | 40 |
| (13) Theory of Music; | 40 |
| (14) Shorthand; | 40 |
| (15) Experimental Science and Drawing; * | |
| (16) Drawing; * | 40 |
| (17) Botany; * | |
| (18) Domestic Economy.* | |

* See Rule 10.

SENIOR GRADE.

BOYS.	Percentage of Marks required for a Pass	GIRLS.	Percentage of Marks required for a Pass
(1) The ancient language, literature, and history of Rome ;	40	(1) The ancient language literature, and history of Rome ;	40
(2) English Composition ;	40	(2) English Composition ;	40
(3) The English language and literature, and the history of Great Britain and Ireland , and geography;	40	(3) The English language and literature, and the history of Great Britain and Ireland , and geography;	40
(4) The Irish language and literature;	40	(4) The Irish language and literature;	40
(5) The French language & history;	40	(5) The French language & history;	40
(6) The German language & history;	30	(6) The German language & history;	30
(7) The Italian language & history;	40	(7) The Italian language & history;	40
(8) The Spanish language & history;	40	(8) The Spanish language & history;	40
(9) Algebra ;	40	(9) Algebra ;	40
(10) Geometry ;	40	(10) Geometry ;	40
(11) Trigonometry ;	40	(11) Trigonometry ;	40
(12) Theory of Music ;	40	(12) Theory of Music ;	40
(13) Shorthand ;	40	(13) Shorthand ;	40
(14) Experimental Science and Drawing ;	*	(14) Experimental Science and Drawing ;	*
(15) Drawing ;	40	(15) Drawing ;	40
(16) Botany .*		(16) Botany ;	*
		(17) Domestic Economy .*	

Subjects of Examination for Honours, Prizes, and Exhibitions for Honours, &c.

9. The following shall be the subjects of the examination for Honours, Prizes, and Exhibitions.†

JUNIOR GRADE.

BOYS.	GIRLS.
(1) The ancient language, literature, and history of Greece ;	(1) The ancient language, literature, and history of Greece ;
(2) The ancient language, literature, and history of Rome ;	(2) The ancient language, literature, and history of Rome ;
(3) The English language and literature, and the history of Great Britain and Ireland , and geography;	(3) The English language and literature, and the history of Great Britain and Ireland , and geography;
(4) The Irish language and history;	(4) The Irish language and history;
(5) The French language & history;	(5) The French language & history;
(6) The German language & history;	(6) The German language & history;
(7) Geometry ;	(7) Geometry ;
(8) Arithmetic and Algebra ;	(8) Arithmetic and Algebra ;
(9) Experimental Science and Drawing .*	(9) Experimental Science and Drawing .*

* See Rule 10.

† For the principles on which Honours, Prizes, and Exhibitions will be awarded, see Section ix.

MIDDLE GRADE.

BOYS.

- (1) The ancient language, literature, and history of **Greece** ;
- (2) The ancient language, literature, and history of **Rome** ;
- (3) The **English** language and literature, and the history of **Great Britain and Ireland**, and geography ;
- (4) The **Irish** language and history ;
- (5) The **French** language & history ;
- (6) The **German** language & history ;
- (7) **Geometry** ;
- (8) **Arithmetic and Algebra** ;
- (9) **Experimental Science and Drawing**.*

GIRLS.

- (1) The ancient language, literature, and history of **Greece** ;
- (2) The ancient language, literature, and history of **Rome** ;
- (3) The **English** language and literature, and the history of **Great Britain and Ireland**, and geography ;
- (4) The **Irish** language and history ;
- (5) The **French** language & history ;
- (6) The **German** language & history ;
- (7) **Geometry** ;
- (8) **Arithmetic and Algebra** ;
- (9) **Experimental Science and Drawing**.*

SENIOR GRADE.

BOYS.

- (1) The ancient language, literature, and history of **Greece** ;
- (2) The ancient language, literature, and history of **Rome** ;
- (3) The **English** language and literature, and the history of **Great Britain and Ireland**, and geography ;
- (4) The **Irish** language and literature ;
- (5) The **French** language & history ;
- (6) The **German** language & history ;
- (7) **Algebra** ;
- (8) **Geometry and Trigonometry** ;
- (9) **Experimental Science and Drawing**.*

GIRLS.

- (1) The ancient language, literature, and history of **Greece** ;
- (2) The ancient language, literature, and history of **Rome** ;
- (3) The **English** language and literature, and the history of **Great Britain and Ireland**, and geography ;
- (4) The **Irish** language and literature ;
- (5) The **French** language & history ;
- (6) The **German** language & history ;
- (7) **Algebra** ;
- (8) **Geometry and Trigonometry** ;
- (9) **Experimental Science and Drawing**.*

* See Rule 10.

SECTION II.

Special Regulations as to Experimental Science and Drawing,
Drawing, Domestic Economy, and Botany.

Drawing.

Experimental
Science
and
Drawing.Pass
Examina-
tions.Examina-
tion for
Honours &c.

10. (a) Drawing shall be allowed as a separate subject in all Grades.
- (b) The courses in Experimental Science and Drawing, and in Drawing as a separate subject, shall be those adopted by the Department of Agriculture and Technical Instruction for Ireland.
- (c) Experimental Science cannot be taken without Drawing.
- (d) The examinations in the subject of Experimental Science and Drawing, and in Drawing as a separate subject, will be held by the Department of Agriculture and Technical Instruction for Ireland. The Board will not hold any examination in these subjects.
- (e) Every candidate who shall be certified by the Inspector of the Department of Agriculture and Technical Instruction for Ireland to have worked satisfactorily through a practical course on the lines set out in the programme for Experimental Science and Drawing of the Department, and to have been present at the final inspection, shall be deemed to have passed the examination in that subject.
- (f) Candidates for Honours, Prizes, and Exhibitions who take up the subject of Experimental Science and Drawing will be examined individually by an Inspector of the Department, and the marks assigned by the Department shall be treated as if the examination in these subjects had been held by the Board.
- (g) In the year 1902 the course in Experimental Science and Drawing for all Grades shall be the First Year's course as set out in the programme of the Department. In the Year 1903, the course for the Preparatory Grade shall be the First Year's course of the Department, and for the other Grades the Second Year's course of the Department.
- (h) In the years 1902 and 1903 the examination and inspection of the higher Grades will be more searching in consideration of the students having reached a more advanced stage.

- (5) The subjects of Domestic Economy and Botany will be ultimately included in the programme, but in the year 1902, pending the completion of arrangements with the Department of Agriculture and Technical Instruction, and the establishment of a system of inspection, the Board will not examine in these subjects, except as provided in Rule 53.

Domestic
Economy
and Botany.

SECTION III.

Students eligible for examination.

11. Before admitting a student to examination, the Board shall satisfy themselves that, during the educational year preceding the date of examination, he has pursued a course of study in Ireland.

Course of
Study in
Ireland.

12. A student whose age on 1st of June, 1902, is under 13 or over 19 years shall be ineligible for the examination in any Grade; and a student whose age is over 15 years on that day shall be ineligible for examination in the Preparatory Grade.

Students
ineligible
by age for
Examina-
tion.

13. A student shall be ineligible for Prizes or Exhibitions whose age on 1st of June, 1902, shall exceed—

Students
ineligible
by age for
Prizes and
Exhibitions.

16 years in the case of Junior Grade candidates.

17 " " Middle Grade "

18 " " Senior Grade "

For the purposes of these rules, the age of a student born on 1st of June in any year shall not be taken as exceeding the prescribed age on that day.

14. A matriculated student of a university shall be ineligible for examination in any Grade.

Students in-
eligible for
Examina-
tion.

15. A student who has already passed the examination twice in any Grade shall be ineligible for examination in the Grade in which he has so previously passed.

16. A student shall be ineligible for examination in a Grade in which he has already obtained an Exhibition, or in a Grade lower than one in which he formerly passed.

SECTION IV.

Notices and declarations to be sent in by students, and by Managers, and other matters preliminary to the examinations.

Student's Notice:

17. Students intending to present themselves for examination shall transmit to the Board, in the prescribed form, notice of their intention, together with satisfactory evidence of age. The notice shall specify the Grade, and the subjects, in which, and the centre at which, the student proposes to present himself; and shall be stamped with an Intermediate Education stamp of 2s. 6d., if the same together with the evidence of age be transmitted to the Board not later than the last day of February, and with a stamp of 10s., if such notice or evidence be transmitted after that day, and not later than the 31st day of March. If the notice or evidence be transmitted after the 31st day of March, the student will not be allowed to present himself for examination. The examination of the student shall be limited to the subjects specified in his notice.

Evidence of Age.

18. The Board will accept as satisfactory evidence of age a certified extract from a public registry of births, and if such certified extract cannot be obtained, a statutory declaration from a parent or guardian, stating, in the prescribed form, the date of birth, and also specifying (a) declarant's means of knowledge of the date of birth as so stated, and (b) the reasons on account of which a certified extract from a public registry of births cannot be obtained.

Examination No.

19. Each student shall be assigned a number by which alone he shall be known in the subsequent examination.

Admission Card.

20. No student shall be admitted to the examination without an admission card.

May Declaration.

21. To obtain such admission card, the student shall, on or after the 1st, and not later than the 21st, day of May, transmit to the Board a declaration, in the prescribed form, stating under what teachers, and in what part of Ireland, he has pursued his studies during the educational year then current.

Signatures to Declaration.

The declaration must be signed by a parent or guardian, or by the manager of the school at which the student has pursued his

studies during the educational year, and shall state in what subjects of those specified in his February notice he proposes to present himself for Honours, and, if he intends to compete for an Exhibition or a Prize, the Group in which he will so compete.

Statements
as to
Honours
and Group

SECTION V.

Conduct of students during the examination.

22. A student shall not bring into the examination room, or have in his possession or under his control, whilst he is in such room,

Rules for
direction of
students.

- (a) any book or paper whatsoever (save his admission card, and such answer books as shall have been supplied to him by the Superintendent) ; or
- (b) any slate, memorandum or notes whatsoever ; or
- (c) during the examination in Object Drawing, or in Free-hand, any mathematical instrument or ruler.

A student who shall be found by the Superintendent violating this rule shall be liable to be expelled from the examination room, in which case he shall not be permitted to return to it during the continuance of the examination in the subject in which the examination papers shall have been then distributed.

23. A student shall not, while in the examination room,

- (a) use, or attempt to use, any book, memorandum, notes, or paper whatsoever (save such answer books as shall have been supplied to him by the Superintendent) ; or
- (b) aid, or attempt to aid, another student ; or
- (c) obtain, or attempt to obtain, aid from another student ; or
- (d) communicate, or attempt to communicate, in any way, with another student.

A student who shall be found by the Superintendent violating this rule shall be expelled from the examination room, and shall not be permitted to return to it during the continuance of the examination in the subject in which the examination papers shall have been then distributed:

24. A student who shall be adjudged by the Board to have violated either Rule 22 or Rule 23 shall be liable to be deprived of the examination or of marks, according to the judgment the Board may form of the gravity of the offence ; and the Board shall have power to publish his name and address, as given in his notice of intention to present himself for examination, as those of a student who has been so deprived.

Rules for
direction of
students.

25. A student

- (a) shall not take out, or attempt to take out, of the examination room, any answer books, whether used or unused ;
- (b) shall not damage the examination room or its furniture ;
- (c) shall, immediately after he has concluded his answers, deliver his answer books, whether used or unused, enclosed in an envelope endorsed with his examination number, to the Superintendent, and shall then leave the examination room ;
- (d) shall, in all matters relative to the examination, submit to and obey the directions of the Superintendent.

A student who shall be adjudged by the Board to have violated this rule shall be liable to be deprived of marks, or to have such deduction made, as the Board may think fit, from any sum payable in respect of any Prize or Exhibition obtained by him.

SECTION VI.

Conditions of passing the examination in particular subjects.

26. No student shall be allowed to present himself in the same subject for both Pass and Honours. The examination papers for Pass and for Honours in each subject will be distributed simultaneously.

27. A student shall be deemed to have passed the examination in any subject who shall have obtained

Pass

- (1) on the Pass paper in that subject such percentage of marks as is stated in Rule 8, *supra* ; or
- (2) who shall have obtained Honours in the subject ; or
- (3) who, having presented himself for Honours in any subject and having failed to obtain Honours, shall have obtained :—

in the case of German in any Grade, or of Greek in the Junior and Middle Grades, twenty-five per cent.,

in the case of any other Honour subject, thirty per cent.

SECTION VII.

Conditions of passing the examination in the Preparatory Grade.

28. Students may present themselves in any number of subjects, *Preparatory Grade*, but to pass the examination they must pass in five subjects, as follows, viz :—

- (A.)—English composition ;
- (B.)—one of the following subjects :—
(1) Latin, (2) French, (3) German ;
- (C.)—Arithmetic ;
- (D.)—one of the following subjects :—(1) Experimental Science and Drawing, (2) English ; *
- (E.)—one other subject.

SECTION VIII.

Conditions of passing the examination in the higher Grades.

29. Students may present themselves in any number of subjects, *Junior Grade* but, except as provided in Rule 30, to pass the examination they must pass in six subjects, as follows :—

GRAMMAR SCHOOL COURSE.

JUNIOR GRADE—BOYS.

- (A.)—English composition ;
- (B.)—Latin ;
- (C.)—one of the following subjects :—
(1) Greek, (2) French, (3) German ;
- (D.)—one of the following subjects :—
(1) Arithmetic, (2) Geometry, (3) Algebra ;
- (E.)—two other subjects.

* The option of English will not be allowed after 1901.

JUNIOR GRADE.—GIRLS.

- (A.)—English composition ;
 (B.)—Latin ;
 (C.)—one of the following subjects :—
 (1) Greek, (2) French, (3) German ;
 (D.)—one of the following subjects :—
 (1) Arithmetic, (2) Geometry, (3) Algebra ;
 (E.)—two other subjects.

MIDDLE GRADE.—BOYS.

Middle
Grade Boys

- (A.)—English composition ;
 (B.)—Latin ;
 (C.)—one of the following subjects :—
 (1) Greek, (2) German, (3) French ; *
 (D.)—one of the following subjects :—(1) Geometry,
 (2) Algebra ;
 (E.)—two other subjects.

MIDDLE GRADE.—GIRLS.

Middle
Grade Girls.

- (A.)—English composition ;
 (B.)—Latin ;
 (C.)—one of the following subjects :—
 (1) Greek, (2) German, (3) French ;
 (D.)—one of the following subjects :—
 (1) Geometry, (2) Algebra, (3) Arithmetic ;
 (E.)—two other subjects.

SENIOR GRADE.—BOYS.

Senior
Grade Boys

- (A.)—English composition ;
 (B.)—Latin ;
 (C.)—one of the following subjects :—
 (1) Greek, (2) German, (3) French ; *
 (D.)—one of the following subjects :—
 (1) Geometry, (2) Algebra, (3) Trigonometry ;
 (E.)—two other subjects.

* The option of French will not be allowed for Boys in the Middle Grade after 1903, or in the Senior Grade after 1905.

SENIOR GRADE—GIRLS.

- | | |
|--|-------------|
| (A.)—English composition ; | Senior |
| (B.)—Latin ; | Grade Girls |
| (C.) and (D.)—two of the following subjects :— | |
| (1) Greek, (2) German, (3) French, | |
| (E.)—two other subjects. | |

MODERN COURSE.

JUNIOR GRADE.

- | | |
|--|--------|
| (A.)—English composition ; | Junior |
| (B.)—French or German ; | Grade. |
| (C.)—one of the following subjects :—(1) Experimental Science and Drawing, (2) English ; * | |
| (D.)—one of the following subjects :— | |
| (1) Geometry, (2) Algebra, (3) Arithmetic ; | |
| (E.)—two other subjects. | |

MIDDLE GRADE.

- | | |
|---|--------|
| (A.)—English composition ; | Middle |
| (B.)—French or German ; | Grade. |
| (C.)—one of the following subjects :— | |
| (1) Experimental Science and Drawing, (2) English ; * | |
| (D.)—one of the following subjects :— | |
| (1) Geometry, (2) Algebra, (3) Arithmetic ; | |
| (E.)—two other subjects. | |

SENIOR GRADE.

- | | |
|---|--------|
| (A.)—English composition ; | Senior |
| (B.)—French or German ; | Grade |
| (C.)—one of the following subjects :— | |
| (1) Experimental Science and Drawing, (2) English ; * | |
| (D.)—one of the following subjects :— | |
| (1) Geometry, (2) Algebra, (3) Trigonometry ; | |
| (E.)—two other subjects. | |

30. Girls may present themselves in any three subjects of the Honour programme in addition to English composition. Girls so presenting themselves shall be deemed to have passed the examination if they pass in English composition and obtain Honour marks in the three other subjects, but shall not be deemed to have passed with Honours.

Special
Provision
Pass
Examina-
tion Girls.

* The option of English will not be allowed in the Junior Grade after 1903, in the Middle Grade after 1904, or in the Senior Grade after 1905.

SECTION IX.

Honours, Exhibitions, Prizes and Medals.

Pass with Honours. 31. A student shall be deemed to have passed with Honours who has passed the examination, and has obtained Honours in at least three of his subjects.

Honours. English Composition. 32. To obtain Honours in any Honour subject, students must obtain 50 per cent. on the Honour paper. In English composition the excess of marks above 50 per cent. shall count towards Prizes and Exhibitions.

Honour Papers. 33. Subject to the provisions of Rule 21, a student may take the Honour papers in any number of subjects, but marks in four subjects only, in addition to marks obtained in English composition under Rule 32, shall count towards Prizes and Exhibitions.

Prizes and Exhibitions. 34. Prizes and Exhibitions can be obtained in any one of the following groups of subjects:—

- I. the Classical Group;
- II. the Modern Literary Group;
- III. the Science Group.

To be eligible for Prizes and Exhibitions in Group I., students must reach the Honour standard in Greek and Latin.

To be eligible for Prizes and Exhibitions in Group II., students must reach the Honour standard in French and in either German or Latin.*

To be eligible for Prizes and Exhibitions in Group III., students in the Junior and Middle Grades must reach the Honour standard in

- (1) Arithmetic and Algebra;
- (2) Geometry.

and in the Senior Grade in

- (1) Algebra;
- (2) Geometry and Trigonometry.

Junior Grade Exhibitions. 35. Exhibitions, the highest of which shall not exceed in value £30, tenable for one year, shall be awarded in each Group to such students in the Junior Grade as the Board shall adjudge to have passed with Honours and to have obtained the highest totals of Honour marks, subject to the provisions of Rule 33.

*The option of Latin will not be allowed in the Junior Grade after 1902, in the Middle Grade after 1903, or in the Senior Grade after 1904.

36. Exhibitions, the highest of which shall not exceed in value £30, Middle Grade Exhibitions, tenable for one year, shall be awarded in each Group to such students in the Middle Grade as the Board shall adjudge to have passed with Honours, and to have obtained the highest totals of Honour marks, subject to the provisions of Rule 33.

37. Exhibitions, the highest of which shall not exceed in value £50, Senior Grade Exhibitions, shall be awarded in each Group to such students in the Senior Grade as the Board shall adjudge to have passed with Honours and to have obtained the highest totals of Honour marks, subject to the provisions of Rule 33.

38. The number of Exhibitions in each Grade and Group shall be Number of Exhibitions, proportioned to the number and excellence of the Passes with Honours in such Grade and Group.

39. The Board may direct that the payments in respect of any Exhibitions in the Junior and Middle Grades shall be subject to the condition that the amount shall be applied to provide for the education of the student in a school. Unless the Board shall otherwise determine, such school shall be selected by the parent or guardian of the student, subject to the approval of the Board, and the amount of the Exhibition shall be paid to the manager thereof, and shall be applied for the education, maintenance, expenses of attending school, or otherwise for the benefit, of the student, upon such terms as shall be agreed upon by the parent or guardian and the manager, subject to the approval of the Board. Exhibitions may be applied to provide for Education of Student in a School.

40. The Board may also direct that the amount of any Exhibition in the Junior, Middle, or Senior Grade, instead of being paid to the student, shall be applied in or towards payment of any sums due to the manager of a school for his education or maintenance as a pupil at a school during the educational year in which the Exhibition was obtained, or in or towards the cost of obtaining further or more advanced or special education or instruction, or in or towards the payment of fees, premiums, or expenses required for enabling the student to prepare or qualify for a suitable calling or employment, or otherwise for his or her permanent benefit and advancement in life. Exhibitions may be applied by the Board for permanent benefit of Student.

41. In order to satisfy themselves that the payments in respect of Exhibitions are or shall be applied in accordance with the purposes of the preceding rules, the Board may call for such certificates, undertakings, or declarations, from managers of schools, teachers, employers, parents, or others, or for such other evidence as the Board may in each case think necessary or sufficient; and may retain the amount of any Exhibition pending the production of such evidence, and in any case in which the Certificates, undertakings, &c., from Managers.

Board shall not be so satisfied before the student attains the age of nineteen years, the right to receive payment of the Exhibition shall cease, unless the Board shall otherwise direct.

**Preparatory
Grade Prize
Fund to
Schools.**

42. The Board shall have power to assign to managers of schools a sum of money not exceeding £1 for each of their students who shall have passed in the Preparatory Grade, as a prize fund to the school, to be applied according to a scheme sanctioned by the Board.

Medals.

43. Medals, provided sufficient merit is shown, may be awarded to students in the Junior, Middle, and Senior Grades respectively, as follows:—

A bronze Medal in each of the following subjects to the boy and to the girl who, having passed, shall obtain the highest marks at the Honour examinations:—

1. in Greek ;
2. in Latin ;
3. in English composition and English, taken together ;
4. in each Modern language ;
5. in the Junior and Middle Grades—one in Geometry, and one in Arithmetic and Algebra ;
in the Senior Grade:—one in Algebra, and one in Geometry and Trigonometry ;
6. in each Grade :—one in Experimental Science and Drawing.

**Separate
Awards
for Boys
and Girls.**

44. In awarding Exhibitions, Prizes, and Medals, separate awards shall be made for students in the different groups, and for boys and girls in each group. Exhibitions or Prizes shall not be awarded to the same student in the same year in more groups than one.

**Special cir-
cumstances.
Equality of
Marks, &c.
Disqualifica-
tion for
Medal.**

45. If two or more students obtain equal marks, a larger number of Medals may be awarded.

46. A student shall not be awarded a Medal a second time for the same subject, in the same Grade.

SECTION X.

Minor Prizes.

47. Prizes in books of the respective values of £3, £2, and £1, Prizes in Books, will be awarded to a limited number of students in the Junior Middle, and Senior Grades.

48. Prizes in books will be awarded to a limited number Prizes in Books for Composition. of students, in the Middle and Senior Grades, who shall have passed the examination, and shall have obtained the highest marks in composition, in any of the following languages:—

Greek, Latin, English, Irish, French, German, Italian, or Spanish.
Such prizes shall be of the value of:—

£4 each, in the Senior Grade; and
£3, in the Middle Grade.

49. Books given as prizes shall be selected from a list prepared Book Prizes to be selected from Board's list by the Board.

SECTION XI.

Retention of Exhibitions awarded in the years 1900 and 1901: Resumption of Exhibitions.

50. Exhibitions, tenable for more than one year, awarded in the years 1900 and 1901, and Exhibitions resumed under Rule 51 or any previous analogous rule, shall continue to be held in the year or years subsequent to that in which they were awarded, on the condition that in each such year the student shall pass the examination in a Grade superior to that in which he obtained or retained such Exhibition in the year immediately preceding; and shall obtain Honour marks in at least three subjects not being English composition. Provided that the Board, if in any case they are of opinion that the failure of a candidate to satisfy the above condition is the result of any exceptional circumstance, for which in their judgment special allowance should be made, shall have power to allow such candidate to retain his Exhibition. Conditions of Retention of Exhibitions awarded in the years 1900 and 1901.

51. Should an Exhibitioner within Rule 50, who through illness Conditions of Resumption of Exhibitions. or other sufficient cause, shall have failed to comply with the condition of continuing to hold his Exhibition, he at the time of the examinations of the next year within the prescribed age,

the Board, notwithstanding anything contained in Rule 15, may at their discretion permit him to present himself for examination in the Grade in which he passed, or might have passed, the examination in the preceding year, and to resume his Exhibition if his marks shall then comply with the prescribed conditions.

Special
Arrange-
ments for
Examina-
tion in
Special
Subjects.

52. Should an Exhibitioner, within rule 50, through illness or other sufficient cause, have failed to comply with the conditions of continuing to hold, in the Middle Grade, an Exhibition awarded to him in the Junior Grade, and present himself, in the succeeding year, for examination in the Senior Grade, the Board may permit him to resume his Exhibition for one year, if he shall satisfy the condition stated in Rule 51.

53. Students who have obtained, or who in 1901 shall obtain, Exhibitions in a course containing Natural Philosophy, Chemistry, Drawing, Domestic Economy, or Botany, may be examined, so long as their Exhibitions continue to be tenable, in such of those subjects as shall have been comprised in their previous courses, and the matter for such examination shall be that prescribed for such subjects by the programme of the Board for the year 1901.

54. An Exhibitioner who would not have been entitled to present himself for examination but for rule 51 or rule 52, or who shall be examined under rule 53, shall not be eligible for any other Exhibition, or for any Medal or Prize.

SECTION XII.

Results of the Examinations: Certificates.

Results of
Examina-
tion.

55. The Board within a convenient time after the examination shall inform managers of schools of the results of the examination of their students.

Certificates.

56. Certificates shall be issued to all students who shall have passed the examination: such certificates shall specify the subjects in which the students shall have passed, or shall have obtained Honours.

SECTION XIII

The School Grant.

57. The School Grant shall be paid to managers of schools who, in addition to observing the other rules of the Board, shall have complied with the following conditions, viz. :—

Conditions to be observed by Managers of Schools.

Inspection.

November Lists of Students.

Intermediate School Roll.

May Declaration.

Claim before 15th of October.

(a) the manager of each school shall, when required by the Board, sign a consent, in the prescribed form, to have his school inspected, and shall permit his school to be inspected accordingly.

(b) the manager of each school shall furnish to the Board, on or before the 1st of November in each year, a list, in duplicate, in the prescribed form, of all students on the roll of the school on the previous 15th of October, who are receiving instruction in a number of subjects sufficient for passing the examination in either of the Pass courses, and who shall be eligible by age to be presented for examination, in any grade, in the following year. In the case of girls' schools, the list shall be exclusive of students whose parents or guardians shall have, before the 15th of October, signified in writing, to the manager, an objection to their children presenting themselves at the examination.

(c) this list shall constitute the "Intermediate School Roll."

(d) the list shall consist of two parts, stating :—

(1) which of the students intend to present themselves at the next examination, dividing them into their various Grades.

(2) which of the students do not intend to present themselves for examination, stating in each case why such student will not present himself.

(e) the manager shall, within due time, sign the student's declaration, prescribed by Rule 21, in the case of each student on the Intermediate School Roll who intends to present himself for examination.

(f) he shall, not later than the 15th day of October next after the examinations in respect of which the School Grant may be claimed, transmit to the Board his claim for such grant, in the prescribed form.

Normal
School
Grant

Maximum
School
Grant.

58. The Normal School Grant payable to any school shall be estimated as follows :—

- (a) if eighty per cent., or over, of the students on the "Intermediate School Roll" of any school shall pass the examination, the manager of the school shall be paid a capitation grant at the maximum rate in respect of every student on such roll.
- (b) if less than 80 per cent., but not less than 10 per cent., of such students shall pass the examination, the rate shall be reduced in accordance with the sliding scale as stated in Schedule A.
- (c) if less than 10 per cent. of such students shall pass the examination, no capitation grant shall be payable to the manager of the school.

Bonus
Additions

59. In order to encourage teaching of a higher type, the Normal School Grant payable to any school, estimated as in Rule 58, shall be increased by the addition of the following bonuses :—

- (1) (a) by a maximum bonus of 50 per cent., if 80 per cent. of the students who pass shall have passed with Honours ;
- (b) by a reduced bonus if less than 80 per cent. of the students who pass shall have passed with Honours, such reduction to be in proportion to the number of passes to passes with Honours, in such manner as shall be determined by the Board.
- (c) this bonus shall not be payable if less than 10 per cent. of the students who pass shall have passed with Honours.
- (2) by a further bonus at such rates as the Board may determine, based upon the relation of the total number of passes in the higher Grades to those in the lower Grades of the school.

Temporary
Provisions.

60. (a) The amount of the capitation grant payable in respect of each student in the year 1902 cannot be fixed until the results of the examination held in that year shall have been ascertained. It will then be fixed by the Board at such a sum as will distribute the income at their disposal for the purposes of the School Grant among managers of schools on the principles laid down in the preceding rules.

(b) If in the judgment of the Board the alterations effected by these rules shall have worked inequitably in the year 1902, in

the case of any school, the Board shall have power, on the application of the manager of the school, to direct that its School Grant shall be calculated on the results of the examinations of that year and of the two previous years.*

SECTION XIV.

Special Powers of the Board in cases of Accidents or Breaches of Rules.

61. In case of the occurrence of accidents or irregularities, or under other special circumstances, the Board shall have power to order a second examination to be held at such centre or centres as they shall think fit, in any portion of the matter of examination; and the marks obtained at such second examination shall, for all intents and purposes, be regarded as if they had been obtained at the first examination, unless the Board, when ordering the second examination to be held, shall otherwise direct.

Power of Board to order a Second Examination.

62. In case a student, through any mistake, shall not be awarded the marks to which he is entitled, on his answering, the Board shall have power to amend the award of the examiners in accordance with the facts, and to adjudge such student to have passed, or to have passed with Honours, or to have obtained an Exhibition, a Prize, or a Medal if he shall be entitled thereto by his marks, as amended.

Power to amend Awards of Examiners.

63. If the Board shall be of opinion that irregularities or malpractices have occurred at any centre, and from the nature or extent thereof shall come to the conclusion that the authorities or teachers of any school are to blame in the matter, they shall have power to direct that such school shall not be entitled to receive any School Grant for such period as they may determine.

Power to disallow School Grant in case of Irregularities.

64. The decision of the Board upon the title to Exhibitions, Prizes, Medals, and School Grants, and upon the amounts of Exhibitions, Prizes, and School Grants, and upon any question which may arise upon the construction of their rules, shall be final and conclusive.

Decision of Board final upon title to Exhibitions, &c.

65. In case a manager shall omit to transmit to the Board, before or on the 15th of October, his claim for a School Grant, the Board may, in their discretion, permit the omitted claim to be received after that day; but the School Grant payable in respect of such omitted claim shall, unless the Board be satisfied of the sufficiency of the cause stated in explanation of the omission, be reduced by such sum not exceeding 10 per cent. as the Board may direct.

Late Claims for School Grant.

* The Board have under consideration the propriety of providing that, in and after the year 1904, the capitation grant shall be calculated upon the results of the then current year and the two previous years.

**Late School
Rolls**

66. In case a manager shall omit to transmit to the Board before or on the 1st November, the list of students upon the roll of the school on the 15th of October, the Board, if satisfied of the sufficiency of the cause stated in explanation of the omission, may, in their discretion, permit the omitted list to be received after that day, but the School Grant which may become payable to such manager shall be reduced by such sum not exceeding 25 per cent. as the Board may direct.

**Omission of
Name from
School Roll.**

67. In case a manager shall omit from the list of students upon the roll of the school on the 15th of October, the name of any student who ought to have been included therein, the Board, if satisfied of the sufficiency of the cause stated in explanation of the omission, may, in their discretion, permit the list to be amended by adding thereto the omitted name or names. A sum of £1 for each name so omitted shall be deducted from the School Grant which may become payable to such manager.

**Power to
enlarge time.**

68. Subject to the foregoing rules, the Board may by order enlarge the time appointed by these rules for doing any Act, and such order shall be valid although made after the time appointed for doing such Act shall have expired.

69. Non-compliance by the Board with these rules shall not render void any of their Acts.

SECTION XV.

Advances to Managers, and Accounts.

**Advances to
Managers of
Schools**

70. The Board shall have power to advance money to managers of schools upon approved security, to enable them to provide proper equipment and appliances for the teaching of practical science, and for similar purposes to be approved by the Board.

Accounts.

71. All sums of money payable under these or any future rules of the Board—the salaries of the Assistant Commissioners, the salaries or other remuneration of the examiners and other officers of the Board, and the other expenses of carrying the Act into execution—shall be payable and paid out of the moneys of the Board generally, and not out of any portion thereof coming from any particular source; and on, or as soon as conveniently shall be after, the 1st day of January next the "Original Endowment" and "Local Taxation (Customs and Excise) Act," Accounts of the Board shall be consolidated.

SECTION XVI.

Definitions and General Provisions.

72. For the purposes of these rules, a school shall mean any educational institution (not being a National school) whose teaching comprises either of the Courses as defined in the Board's programme in any grade higher than the Preparatory, and whose "Intermediate School Roll," in the year of the examination, contains the names of at least seven pupils.

Definition of
School.

73. The following expressions in the rules are thus defined :—

Other
Definitions.

"student" includes "girl" as well as "boy;" and pronouns in the masculine gender include the corresponding pronouns in the feminine gender.

"educational year" means the period between the 15th day of October in any year and the 1st day of June in the succeeding year.

"the prescribed form" means such form as may, from time to time, be prescribed by the Board.

"subject" means any subject of examination in the programme.

"Honour subject" means any subject within rule 9.

"Honour marks" mean marks within the description in rule 32.

74. These rules shall come into operation on the 1st day of September, 1901, but shall not apply to anything in relation to the examinations which shall have been previously held. The rules signed on the 7th day of June, 1900, are revoked as from 1st January, 1902.

SCHEDULE A. See Rule 58 (b).

Percentage of Students on the Roll who have passed the Examination	Capitation Grant for Maximum of £1 expressed as decimal of £1	Percentage of Students on the Roll who have passed the Examination	Capitation Grant for Maximum of £1 expressed as decimal of £1	Percentage of Students on the Roll who have passed the Examination	Capitation Grant for Maximum of £1 expressed as decimal of £1
10	0.12500	34	0.39870	58	0.76088
11	0.13144	35	0.40851	59	0.77463
12	0.13843	36	0.42346	60	0.78867
13	0.14593	37	0.43856	61	0.80246
14	0.15391	38	0.45378	62	0.81601
15	0.16237	39	0.46911	63	0.82930
16	0.17130	40	0.48454	64	0.84231
17	0.18068	41	0.50004	65	0.85503
18	0.19048	42	0.51560	66	0.86743
19	0.20071	43	0.53121	67	0.87952
20	0.21134	44	0.54685	68	0.89126
21	0.22236	45	0.56250	69	0.90264
22	0.23374	46	0.57815	70	0.91366
23	0.24548	47	0.59379	71	0.92429
24	0.25757	48	0.60940	72	0.93452
25	0.26997	49	0.62496	73	0.94432
26	0.28269	50	0.64046	74	0.95370
27	0.29570	51	0.65589	75	0.96263
28	0.30899	52	0.67122	76	0.97109
29	0.32254	53	0.68644	77	0.97907
30	0.33633	54	0.70154	78	0.98657
31	0.35037	55	0.71649	79	0.99356
32	0.36462	56	0.73130	80	1.00000
33	0.37907	57	0.74593	—	—

Given under our Common Seal this
3rd day of June, 1901.

L. S.

Present at Board Meeting when Seal
was affixed,

T. J. BELLINGHAM BRADY,

Assistant Commissioner.

WE, GEORGE HENRY, EARL CADOGAN, Lord Lieutenant General
and General Governor of Ireland, do hereby approve of
the foregoing Rules.

Dated this 5th day of June, 1901

(Signed), CADOGAN.

Intermediate Education Board for Ireland

OFFICES :—1, HUME-STREET, DUBLIN

PROGRAMME OF
EXAMINATIONS

IN THE

*Preparatory, Junior, Middle, and Senior Grades
for 1902*

Intermediate Education Board for Ireland.

PROGRAMME OF EXAMINATIONS FOR 1902.

The Intermediate Education Board for Ireland, in pursuance and by virtue of the "Intermediate Education (Ireland) Acts, 1878 to 1900," do hereby, with the approval of His Excellency George Henry, Earl Cadogan, Lord Lieutenant General and General Governor of Ireland, make the following Rule for the purposes of the said Acts, viz. :—

The following shall be the Programme of examinations for the year 1902 in the Preparatory, Junior, Middle, and Senior Grades respectively.

PROGRAMME.

PRELIMINARY NOTES APPLICABLE TO ALL GRADES.

1. It is intended by the Board that teachers shall have liberty to select any text books they think fit.

2. Knowledge of the prescribed authors in the various languages, in Preparatory and Junior Grades, may be tested by questions in parsing, analysis, paraphrasing, prosody, literature, history, and geography, naturally arising out of the passages set for translation.

3. The passages for translation at sight will be chosen of a style and character similar to those of the authors prescribed in the Preparatory and Junior Grades, or mentioned as standards in the Middle and Senior Grades.

4. All the questions on the Pass examination papers shall be of such a character as to be capable of being answered by a student of average ability, fairly well taught. The Pass papers will be specially revised with this view.

5. In all papers on history, easy questions may be set on geography as illustrating the history.

6. In the languages in all Grades, but particularly in the Middle and Senior Grades, special credit will be given for the style of the translations into English.

7. The English composition exercise will be judged for its general correctness of phraseology and the intelligence shown in dealing with the subject, as well as for spelling, punctuation, and neat and legible handwriting.

8. In lengthening the courses in English literature, the Board wish it to be understood that they intend the works named for home reading, and not necessarily to be included in school teaching.

Preparatory Grade.

GREEK.

Percentage
of Marks

1. **XENOPHON**: *Anabasis*, Book II., with questions on grammar, &c., arising out of the text. 30
 2. Short sentences for translation into Greek, the more difficult words being supplied. 30
 3. A passage or passages from some other Greek work or works for translation at sight; aid to be given by a vocabulary of unusual words. 30
 4. Outlines (*i.e.* easy questions relating to the more remarkable events and personages, with dates) of Greek history down to B.C. 479. 10
-

LATIN.

1. **CAESAR**: *de Bello Gallico*, Book II., with questions on grammar, &c., arising out of the text. 30
 2. Short sentences for translation into Latin, the more difficult words being supplied. 30
 3. A passage or passages from some other Latin work or works for translation at sight. 30
 4. Outlines (*i.e.* easy questions relating to the more remarkable events and personages, with dates) of Roman history down to B.C. 241. 10
-

ENGLISH COMPOSITION.

The subjects for composition will be set from **DEFOE**: *Robinson Crusoe*; **MOORE**: *Paradise and the Peri*; **BYRON**: *Prisoner of Chillon*. A skeleton of treatment will be given to aid the student.

ENGLISH.Percentage
of Marks

1. Literature of the period A.D. 1789 to 1815, with special reference to **BYRON**: *Childe Harold*, Cantos II. and III.; **COLERIDGE**: *Ancient Mariner*; **SCOTT**: *Waverley*, as well as the books prescribed for English composition, *supra*. 50

N.B.—*Some general questions will be asked to test whether the candidates understand the matter of the prescribed text books, and one or two sentences will be set for analysis.*

2. Outlines (*i. e.* easy questions relating to the more remarkable events and personages, with dates) of the history of England and Ireland from A.D. 1789 to 1815. 30

3. Geography; the use of maps; size and shape of the Earth; general outlines of the great divisions of the Globe; outlines of the Physical and Political geography of Ireland. 20

IRISH.

1. Simple Lessons in Irish, Parts I., II., III., by Rev. E. O'Growney. }
Sgeuluidhe Gaodhalach. By Douglas Hyde, LL.D. } 30
 Part I. Stories II., IV., V., VI., with questions on grammar, &c., arising out of the text. }

2. A passage or passages from an Irish author for translation at sight; the more difficult words being supplied. 30

3. Short sentences for translation into Irish; the more difficult words being supplied. 40

FRENCH.

1. **XAVIER MARMIER**: *Le Protégé de Marie Antoinette*; with questions on grammar, &c., arising out of the text. 30

2. A passage or passages from some other French work or works for translation at sight. 30

3. Short sentences, colloquial phrases, and passage for translation from English into French, the more difficult words being supplied. 40

GERMAN.

1. **GRIMM**: Märchen—Der Wolf und die sieben Geislein; Drei Spinnerinnen; Hänsel und Gretel; Aschenputtel; Frau Hölle; Rothkäppchen; Einäuglein, Zweiäuglein und Dreiäuglein, with questions on grammar, &c., arising out of the text.

-30

2. A passage or passages from some other German work or works, as well as a passage in German handwriting, for translation at sight.

-30

3. Short sentences, colloquial phrases, and passage for translation into German, the more difficult words being supplied.

-40

Students will not be required to write their answers in German handwriting.

ITALIAN.

1. **EDMONDO DI AMICIS**: Cuore, Ottobre, Novembre, Dicembre; with questions on grammar, &c., arising out of the text.

-30

2. A passage or passages from some other Italian work or works for translation at sight.

-30

3. Short sentences, colloquial phrases, and passage for translation into Italian, the more difficult words being supplied.

-40

ARITHMETIC.

First four rules, simple and compound; reduction, including metric system; simple and compound proportion; vulgar and decimal fractions; calculation of rectangular areas and rectangular volumes.

GEOMETRY.

Euclid, book i.

„ book ii.

Easy deductions from book i.

The enunciations of the propositions of Euclid may be varied in order to test whether candidates understand their meaning.

ALGEBRA.

Definitions and explanations of algebraic signs and terms; addition, subtraction, multiplication, and division of algebraic integers and of algebraic fractions; reduction of a fraction to its simplest form.

Junior Grade.*

GREEK.

Pass

Percentage
of Marks

- | | |
|--|----|
| 1. XENOPHON : <i>Oeconomicus</i> , with questions on grammar, &c., arising out of the text. | 30 |
| 2. Short sentences for translation into Greek, the more difficult words being supplied. | 30 |
| 3. A passage or passages from some other Greek work or works for translation at sight; aid to be given by a vocabulary of unusual words. | 30 |
| 4. Greek history to the end of the Persian Wars, B.C. 479. | 10 |

Honours

1. **EURIPIDES**: *Alcestis*, omitting the Lyric portions, with questions on grammar, &c., arising out of the text.

2. More difficult passages and questions on the Pass course.

A short passage of English verse for translation into Greek iambs.

In case of positive merit in verse composition, an addition of not more than 10 per cent. will be made to the total Honour marks in Greek of the student.

LATIN.

Pass

- | | |
|--|----|
| 1. LIVY : Book IX., chaps. 1 to 31, inclusive, with questions on grammar, &c., arising out of the text. | 30 |
| 2. Short sentences for translation into Latin; the more difficult words being supplied. | 30 |
| 3. A passage or passages from some other Latin work or works for translation at sight. | 30 |
| 4. Roman history from B.C. 241 to 133. | 10 |

* Honour papers in the Junior Grade will consist of:—(1) passages in both Pass and Honour prescribed works, (2) matter parallel to 2, 3, 4 of Pass papers, to be marked in the same proportion.

Honours

1. **VIRGIL**: *Æneid*, Book IX., with questions on grammar, &c., arising out of the text, and questions on scansion.

2. More difficult passages and questions on the Pass course.

A short passage of English verse for translation into Latin elegiacs or hexameters.

In case of positive merit in verse composition, an addition of not more than 10 per cent. will be made to the total Honour marks in Latin of the student.

ENGLISH COMPOSITION.*

Composition. The subject for composition will be set from **MACAULAY**: Addison; **THACKERAY**: George the Third (from *The Four Georges*); **TENNYSON**: Enoch Arden. A skeleton of treatment will be given to aid the student.

ENGLISH.**Pass**

1. English literature. The Nineteenth Century, with special reference to

DICKENS: *A Tale of Two Cities*;

LAMB: *Essays of Elia*;

The Golden Treasury of Songs and Lyrics (Ed. 1900),
Bk. IV.;

as well as the works prescribed for English Composition,
supra.

N.B.—*Some general questions will be asked to test whether the candidates understand the matter of the prescribed text books.*

2. The history of England and Ireland from A.D. 1850 to 1900.

3. Geography; outlines of the geography of the World. Physical and Political geography of Great Britain and Ireland, and the outlines of that of the British Colonial Empire, with special reference to British South Africa.

Honours

More difficult questions on the Pass course.

* See Rule 32.

IRISH.**Pass**

- | | | |
|---|---|-----|
| 1. Simple Lessons in Irish, Part IV., by Rev. E. O'Growney. | } | -30 |
| Seguluidhe Gaothalach. By Douglas Hyde, LL.D. Part II., Stories XI., XII., XIV., XIX., with questions on grammar, &c., arising out of the text. | | |
| 2. Short sentences for translation into Irish; the more difficult words being supplied. | | -30 |
| 3. A passage or passages from an Irish author for translation at sight; the more difficult words being supplied. | | -30 |
| 4. Irish history to the Introduction of Christianity. | | -10 |

Honours

1. Laoidh Oisín air Thír na n-óg, with questions on grammar, &c., arising out of the text.
Simple Lessons in Irish: Part V., by Rev. E. O'Growney.
2. More difficult passages and questions on the Pass Course.

FRENCH.**Pass**

- | | |
|--|-----|
| 1. XAVIER DE MAISTRE: Le Jeune Siberienne, and Les Prisonniers du Caucase; with questions on grammar, &c., arising out of the text | -30 |
| 2. A passage or passages from some other French work or works for translation at sight. | -30 |
| 3. Short sentences, colloquial phrases, and a passage for translation from English into French. | -30 |
| 4. French history from A.D. 1789 to 1815. | -10 |

Honours

1. RACINE: *Athalie*; with questions on grammar arising out of the text.
2. More difficult passages and questions on the Pass course.

GERMAN.**Pass**

1. **SCHMID**: Heinrich von Eichenfels, and Die Ostereier, with questions on grammar, &c., arising out of the text. .30
2. A passage or passages from some other German work or works, as well as a passage in German handwriting, for translation at sight. .30
3. Short sentences, colloquial phrases, and passages for translation from English into German. .30
4. German history from A.D. 1815 to 1871. .10

Students will not be required to write their answers in German handwriting.

Honours

1. **FOUQUE**; Undine.
2. More difficult passages and questions on the Pass course.

ITALIAN.

1. **EDMONDO DI AMICIS**: Cuore, Gennaio, Febbraio, Marzo; with questions on grammar, &c., arising out of the text. .30
2. A passage or passages from some other Italian work or works for translation at sight. .30
3. Short sentences, colloquial phrases, and passages for translation from English into Italian. .30
4. Italian history from A.D. 1848 to 1870. .10

SPANISH.

1. **QUINTANA**: Vida del Cid, with questions on grammar, &c., arising out of the text. .30
2. A passage or passages from some other Spanish work or works for translation at sight. .30
3. Short sentences, colloquial phrases, and a passage for translation from English into Spanish. .30
4. Spanish history from A.D. 1700 to the invasion of Bonaparte. .10

ARITHMETIC.**Pass**

Preparatory Grade Course. Practice and simple interest.
Square root and cube root.

*Students are liable to questions requiring for their solution
a knowledge of the metric system of weights and measures.*

BOOK-KEEPING.

Book-keeping by double entry—definitions of the terms
used—form and objects of the various books employed—record-
ing of business transactions—posting, balancing, and closing the
ledger—balance sheets.

GEOMETRY.**Pass**

Euclid, book i., book ii., book iii.
Easy deductions from books i. and ii.

(N.B.—*The enunciations of the propositions of Euclid may
be varied in order to test whether Candidates understand their
meaning.*)

Honours

Deductions from books i., ii., and iii.

ALGEBRA.**Pass**

Preparatory Grade course. Simple equations in a single
unknown quantity, and simple equations involving two unknown
quantities, and problems solvable by such equations.

ALGEBRA AND ARITHMETIC.*Honours*

Algebra.—

Preparatory Grade course.

Simple equations in a single unknown quantity, and simple equations involving two unknown quantities, and problems solvable by such equations.

Quadratic equations in a single unknown quantity, and problems solvable by such equations.

Arithmetic.—Pass course ; arithmetical scales.

EXPERIMENTAL SCIENCE AND DRAWING.***BOTANY.*****MUSIC (Theory of)**

- | | |
|---|-----|
| 1. Notation, Time, Scales, Keys, Intervals, Accent. | ·35 |
| 2. Harmony. An easy exercise will be set in figured bass, introducing common chords, chords of the dominant seventh and their inversions. | ·65 |

DOMESTIC ECONOMY (For Girls only).***DRAWING.*****SHORTHAND.****PITMAN'S** system.

- (1) A piece of shorthand to be transcribed into longhand.
 (2) Dictation of short and simple sentences by the Centre Superintendent.

* See Rule 10.

ENGLISH COMPOSITION.*

Composition.—The subject for composition will be set from **MACAULAY** : Johnson ; **THACKERAY** : Addison, Steele, and Goldsmith (from English Humourists) : and **POPE** : *Iliad*, Books 18 to 24.

ENGLISH.**Pass**

1. English Literature. The period 1688 to 1800, with special reference to **STEELE** : *The Tatler* ; **SWIFT** : *Battle of the Books* ; *The Golden Treasury of Songs and Lyrics* (Ed. 1900), Book III., as well as the works prescribed for composition, *supra*.

-50

2. The history of England and Ireland ; the period 1688 to 1800 A.D.

-30

3. Physical and Political geography of Europe, and outlines of the remainder of the Eastern Hemisphere. An outline map of one of the countries of Europe will be given to be filled up by inserting and naming the chief ranges of mountains, the chief towns, and the chief rivers and lakes.

-20

Honours

More difficult questions on the Pass course.

IRISH.**Pass**

1. Colloquial phrases and a passage of English for translation into Irish.

-40

2. Prose passages from Irish works, for translation at sight, with questions on grammar, arising out of the passages.

-40

Standards for style and character
of the passages

{	Life of Donnehadh
	Ruadh (Fleming).
	Eachtra Ghiolla an Amaráin.

3. History : from the introduction of Christianity to the Anglo-Norman invasion.

-20

Honours

More difficult passages and questions on the Pass course.

* See Rule 32.

FRENCH.**Pass**

- | | | | |
|--|---|---|-------------------------------------|
| 1. Passages from French authors for translation at sight, with questions on grammar, &c., arising out of the passages. | 40 | | |
| Standards for style and character of the passages. | <table border="0"> <tr> <td style="font-size: 3em; vertical-align: middle;">{</td> <td style="vertical-align: middle;"> SOUVESTRE.
COPPÉE. </td> </tr> </table> | { | SOUVESTRE.
COPPÉE. |
| { | SOUVESTRE.
COPPÉE. | | |
| 2. Colloquial phrases, and a passage of English for translation into French. | 40 | | |
| 3. French history from A.D. 1815 to 1873. | 20 | | |

Honours

More difficult passages and questions on the Pass course.

GERMAN.**Pass**

- | | | | |
|--|--|---|--|
| 1. Passages from German authors for translation at sight, with questions on grammar, &c., arising out of the passages. | 40 | | |
| Standard for style and character of the passages | <table border="0"> <tr> <td style="font-size: 3em; vertical-align: middle;">}</td> <td style="vertical-align: middle;"> SCHILLER : Prose
and Poems. </td> </tr> </table> | } | SCHILLER : Prose
and Poems. |
| } | SCHILLER : Prose
and Poems. | | |
| 2. Colloquial phrases, and a passage of English for translation into German. | 40 | | |
| 3. German history from A.D. 1701 to 1815. | 20 | | |
| <i>Students will not be required to write their answers in German handwriting.</i> | | | |

Honours

More difficult passages and questions on the Pass course.

ITALIAN.

- | | | | |
|---|--|---|---------------|
| 1. Passages from Italian authors for translation at sight, with questions on grammar, &c., arising out of the passages. | 40 | | |
| Standard for style and character of the passages. | <table border="0"> <tr> <td style="font-size: 3em; vertical-align: middle;">}</td> <td style="vertical-align: middle;"> TASSO. </td> </tr> </table> | } | TASSO. |
| } | TASSO. | | |
| 2. Colloquial phrases, and a passage of English for translation into Italian. | 40 | | |
| 3. Italian history from A.D. 1814 to 1848. | 20 | | |

SPANISH.

- | | |
|---|-------------------|
| 1. Passages from Spanish authors for translation at sight, with questions on grammar, &c., arising out of the passages. | 40 |
| Standard for style and character of }
the passages } | CERVANTES. |
| 2. Colloquial phrases, and a passage of English for translation into Spanish. | 40 |
| 3. Spanish history from A.D. 1516 to 1700. | 20 |

ARITHMETIC.**Pass**

Junior Grade course. Compound interest, profit and loss, stocks and shares, present worth and discount.

Students are liable to questions requiring for their solution a knowledge of the metric system of weights and measures.

BOOK-KEEPING.

Junior Grade course extended to include—stocktaking—provision for bad and doubtful debts—adjustment entries—partnership transactions—dealings in stocks and shares, and transactions in connection with exports and imports.

GEOMETRY.**Pass**

Euclid, books i., ii., iii., and iv., with easy deductions from books i. to iv. inclusive.

Honours

Euclid, book vi., definitions of book v., and deductions from books i. to iv. inclusive.

Candidates may be required to give algebraical proofs of those properties of proportional magnitudes on which the establishment of the propositions of Euclid book vi. depends.

The enunciations of the propositions of Euclid may be varied in order to test whether candidates understand their meaning.

ALGEBRA.***Pass***

Junior Grade Pass course, simple equations involving more than two unknown quantities, and quadratic equations in a single unknown quantity and questions solvable by such equations.

ALGEBRA AND ARITHMETIC.***Honours***

Algebra—Junior Grade Honour course. Involution, evolution, indices, and surds. Simple equations involving more than two unknown quantities, and questions solvable by such equations. Theory of the quadratic equation. Imaginary quantities, arithmetical and geometrical progressions.

Arithmetic—Pass course; arithmetical scales.

EXPERIMENTAL SCIENCE AND DRAWING.***BOTANY.*****MUSIC (Theory of).**

1. In addition to the Junior Grade course, an exercise will be set in transposition and another in figured bass, introducing secondary (or non dominant) chords of the seventh, and chords of the major and minor ninth, with their inversions.
2. Outlines of the history of music.

·70

·30

DOMESTIC ECONOMY (For Girls only).***DRAWING.*****SHORTHAND.**

PITMAN'S system.

- (1) A piece of shorthand to be transcribed into longhand.
- (2) Dictation, of short and simple sentences, by the Centre Superintendent.

* See Rule 10.

Senior Grade.

GREEK.

Percentage
of Marks

Pass.

- | | |
|--|----|
| 1. A passage or passages of English prose to be translated into Greek. | 45 |
| 2. Passages from Greek authors for translation at sight, with questions on grammar, &c., arising out of the passages. | 40 |
| Standards for style and character of passage. { <div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> 1. The Narrative of Thucydides.
 2. The Greek Drama; dialogue.
 or Homer. </div> | |
| 3. Greek history, from B.C. 445 to B.C. 323 and outlines of Greek literature and art within that period. | 15 |

Honours

More difficult passages and questions on Pass course.

A passage of English verse for translation into Greek iambs.

In case of positive merit in verse composition, an addition of not more than 10 per cent. will be made to the total Honour marks in Greek of the student.

LATIN.

Pass

- | | |
|--|----|
| 1. A passage or passages of English prose for translation into Latin. | 45 |
| 2. Passages from Latin authors for translation at sight, with questions on grammar, &c., arising out of the passages | 40 |
| Standards for style and character of the passages. { <div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> LIVY.
 HORACE. </div> | |
| 3. Roman history, from B.C. 44 to A.D. 40, and outlines of Roman literature within that period. | 15 |

Honours

More difficult passages and questions on Pass course.

A passage of English verse for translation into Latin verse.

In case of positive merit in verse composition, an addition of not more than 10 per cent. will be made to the total Honour marks in Latin of the student.

ENGLISH COMPOSITION.*

Composition.—The subject for composition will be set from
(a) **NEWMAN**: *Idea of a University*, or **RUSKIN**: *Proserpina*,
Agrestes, and *Ethics of the Dust*; (b) **TENNYSON**: *Princess*.

ENGLISH.**Pass**

1. English literature. The Elizabethan period, with special reference to

SHAKESPEARE: *Henry IV.*, Parts i. and ii.

BACON: *Essays*, Nos. 1, 4, 5, 6, 11, 13, 15, 19, 20, 23, 27, 29, 42, 43, 50, 57, 58.

Golden Treasury of Songs and Lyrics (Ed. 1900), Book i., as well as the works prescribed for English Composition, *supra*.

-50

N.B.—*Some general questions will be asked to test whether the candidates understand the matter of the prescribed text books.*

2. The history of England and Ireland, from A.D. 1509 to A.D. 1688.

-30

3. Physical and Political geography of Canada and the United States; outlines of the remainder of the Western Hemisphere.

-20

Honours

More difficult questions on the Pass course, and, in addition, elements of Rhetoric.

IRISH.**Pass**

1. Colloquial phrases and a passage of English for translation into Irish.

-40

2. Passages from Irish works for translation at sight, with questions on grammar arising out of the passages.

-40

Standards for style and character of the passages. *Eachtra Lomnochtain an t-Sleibhe Riffe.*
O'Rahilly's Poems.

3. Irish literature: literary history of Ireland to the Danish invasion.

-20

Honours

More difficult passages and questions on the Pass course.

* See Rule 32.

FRENCH.**Pass**

- | | |
|---|--------------------------------|
| 1. Passages from French authors for translation at sight,
with questions on grammar, &c., arising out of the passages. | 40 |
| Standards for style and character of the passages | ERCKMANN-CHATRIAN.
SANDEAU. |
| 2. Colloquial phrases, and a passage of English prose for
translation into French. | 40 |
| 3. French history from A.D. 1643 to 1715. | 20 |

Honours

More difficult passages and questions on the Pass course.

GERMAN.**Pass**

- | | |
|---|-----------------------------|
| 1. Passages from German authors for translation at sight,
with questions on grammar, &c., arising out of the passages. | 40 |
| Standards for style and character of the passages | FREYTAG.
GOETHE, Lyrics. |
| 2. Colloquial phrases, and a passage of English prose for
translation into German. | 40 |
| 3. German history from A.D. 1555 to 1648. | 20 |
| <i>Students will not be required to write their answers in
German handwriting.</i> | |

Honours

More difficult passages and questions on the Pass course.

ITALIAN.

- | | |
|--|--------------------------|
| 1. Passages from Italian authors for translation at sight,
with questions on grammar, &c., arising out of the passages. | 40 |
| Standards for style and character of the passages | MACHIAVELLI.
ALFIERI. |
| 2. Colloquial phrases, and a passage of English prose for
translation into Italian. | 40 |
| 3. Italian history from A.D. 1797 to 1814. | 20 |

SPANISH.

- | | |
|---|--|
| 1. Passages from Spanish authors for translation at sight, with questions on grammar, &c., arising out of the passages. | 40 |
| Standards for style and character of the passages | $\left\{ \begin{array}{l} \text{MENDOZA.} \\ \text{CALDERON.} \end{array} \right.$ |
| 2. Colloquial phrases, and a passage of English prose for translation into Spanish. | 40 |
| 3. Spanish history from A.D. 1220 to 1516. | 20 |

GEOMETRY.**Pass**

Euclid, books i., ii., iii., iv., vi., with definitions of book v., and easy deductions from books i. to iv. inclusive.

ALGEBRA.**Pass**

Middle Grade Pass course. Involution, evolution, indices and surds. Arithmetical and geometrical progressions.

Honours

Middle Grade Honour course. Permutations, combinations, binomial theorem and applications. Elimination; simultaneous equations of a degree higher than the first, and questions leading to them; exponential and logarithmic series; indeterminate coefficients. First elements of theory of determinants.

TRIGONOMETRY.**Pass**

Trigonometry to and including the solution of plane triangles.

GEOMETRY AND TRIGONOMETRY.*Honours*

Deductions from Euclid, books i. to iv. inclusive, and from book vi.

Book xi., propositions 1 to 21 inclusive, with easy deductions from them.

Pass course in Trigonometry. Properties of circumscribed, inscribed, and escribed, circles of a triangle. Inverse functions. De Moivre's theorem. Series.

EXPERIMENTAL SCIENCE AND DRAWING.***BOTANY.*****MUSIC (Theory of).**

1. In addition to Junior and Middle Grade courses, an exercise will be set in figured bass, introducing chords on the *eleventh* and *thirteenth* major and minor; also dissonances by *suspension*.

·35

2. Counterpoint in *four* parts of the *first* species. Rules and simple exercises.

·35

3. History of Music; Handel to Beethoven inclusive.

·30

DOMESTIC ECONOMY (For Girls only).***DRAWING.*****SHORTHAND.**

PITMAN'S system.

(1) A piece of longhand to be copied into shorthand.

(2) A piece of shorthand to be transcribed into longhand.

(3) Dictation by Centre Superintendent.

* See Rule 10.

L. S.

Given under our Common Seal this
3rd day of June, 1901.

Present at Board Meeting when Seal
was affixed.

T. J. BELLINGHAM BRADY,

Assistant Commissioner.

WE, GEORGE HENRY, EARL CADOGAN, Lord Lieutenant-General and
General Governor of Ireland, do hereby approve of the foregoing Rule.

Dated this 5th day of June, 1901.

(Signed) CADOGAN.

EXTRACT FROM "REGULATIONS AND COURSES
ISSUED BY THE DEPARTMENT OF AGRICULTURE AND TECHNICAL EDUCATION FOR
IRELAND WITH REFERENCE TO EXPERIMENTAL SCIENCE AND DRAWING, DRAWING,
AND HOUSEHOLD ECONOMY."*

I.

REGULATIONS.

I.

† (3.) The minimum number of hours devoted to instruction in Science and Drawing shall be four hours per week, of which three shall be given to Science and one to Drawing.

The minimum duration of an approved course shall be two years.

II.

(1.) *Experimental Science* shall mean such a system of instruction in Physical and Natural Science as will involve the greater part of the work being done by the pupils themselves in an approved laboratory.

Drawing must include Freehand, and may include Mechanical Drawing (with Practical Geometry) and Modelling.

Household Economy may include Cookery, Laundry Work, Dress-making, and any other form of practical instruction in household management of which the Department may approve.

(2.) Managers of Schools may submit their own courses of instruction in these subjects for the approval of the Department.

III.

In Schools in which a fair proportion of pupils remain three or four years, the course shall consist of at least Experimental Science and Drawing. Not less than three hours per week shall be devoted to Experimental Science, and one to Drawing. If more than six hours per week are devoted to Science and Drawing, Household Management shall also form part of the course; and, in that case, at least one and a half hours shall be devoted to this subject.

In certain cases Practical Mathematics and Mechanical Drawing may be substituted, with the sanction of the Department, for Practical Science.

The minimum number of hours per week for a two years' course shall be six.

* The complete Syllabus may be had on application to The Secretary, Department of Agriculture and Technical Instruction for Ireland, Dublin.

† The number or letters at the beginning of this and other sections are those of the Syllabus of the Department.

IV.

No scheme will be approved unless the Department are satisfied that due provision is made for the instruction of the pupils in the other main branches of a general education.

No instruction will be recognised in which due provision is not made for experimental work in Science on the part of the pupils in properly equipped and approved laboratories.

Not more than forty pupils shall be taken at a time by one teacher for Theoretical Instruction in any subject, nor more than twenty for Practical Instruction in Science, unless an Assistant is provided, in which case the number may be increased to thirty.

Practical Instruction in Science must be given in lessons of at least eighty minutes' duration. The time table of the School must be arranged so as to leave sufficient time to the Science Master for preparation of laboratory work.

The qualification of the teacher and the time table of the School must be approved by the Department.

VI.

The Course of Instruction should begin in August or September of any year, and should be continuous throughout the School year. The hours per week devoted to the course must be fairly distributed throughout the school week. In exceptional circumstances, where *previous* application has been made, the Department may sanction another arrangement. Deviations from the approved time table, unless *previously* sanctioned, will be regarded as a serious irregularity.

Lessons of less than forty minutes' duration will *not* be considered in computing the "total number of hours" of attendance under II. (4).

Attendance registers will be supplied by the Department: attendances not registered in the manner indicated on the official registers will be disregarded.

II.

COURSE IN SCIENCE.

I.—PREFATORY NOTE.

The committing of facts to memory, however important or useful, is not Science teaching; and it is hoped, therefore, that during at least the first two years of the course the text-book will occupy a very small (if any) share in the work of instruction. The object in view is the introduction of the scientific method of Science teaching as a means of mental discipline; and it is because the methods and spirit of the teaching cannot be measured by the ordinary form of written

examination, that the annual written tests have been abandoned in favour of inspection.

The principles underlying the scientific method are (1) careful and accurate collection of facts, (2) observation of the inter-relation and sequence of facts, (3) construction and testing of hypotheses to account for facts; and it is possible, even in the simplest exercises, to have due regard to these principles. To the scientific method, the mere *telling*, or *learning*, of facts is therefore opposed. The work is to be practical, and by this is meant the working out of the exercises by the pupils themselves. The business of the teacher is to shape his course of instruction by exercises chosen on some definite plan; to instruct his pupils how to measure and weigh accurately, and, in general, how to collect the results of their observations; and to assist them in arriving at correct conclusions. Results should, as far as possible, be tested in more ways than one; and the pupils should gradually gather confidence in their own observations, so that, whether hopeful or not as to the correctness of their conclusions, they should have complete confidence in the accuracy of their facts.

As far as possible, the "research" method should be adopted even in the earliest exercises; but the teacher will probably find that at one time the "research" method, and at another the method of "verification," will best serve the interests he has at heart, and carry along his work without undue loss of time. Instructions as to the carrying out of exercises will necessarily *precede* the actual measurements, weighings, and so on; but the drawing of conclusions, the driving home, so to say, of the meaning of the facts, will *follow* laboratory practice. To this end the class should be "kept together." Much of the value of this kind of teaching is lost in the case of young pupils if individuals are allowed to "go on."

Pupils may be allowed to work in pairs, but not in groups of three or four. Careful consideration of the exercises, with a view to such modification of details as will reduce the duplication of sets of apparatus will, therefore, be demanded of the teacher. The apparatus used should be as simple and inexpensive as possible. At the present moment it is not proposed to issue a list of necessary apparatus; the choice is left to individual Schools. But one balance (costing from 30s. to 40s.) will be necessary during the first two years for each pair of pupils in any one laboratory class. Afterwards a few more delicate balances will be required.

A word about the exercises themselves may be useful. In the measurements of length, area, and volume, the attention of the pupil should not be confined to small objects. The metre stick, the foot rule, the yard stick, a tape, and, where available, a surveyor's chain, should all be used; the circumference of a small coin, of a circle of large dimensions; the area of an envelope, of a pane of glass, of the surface

of the working bench or of the floor; the volumes of flasks and of vessels of large size, such as pails, barrels, and even cisterns, should all be measured in English and metric units. In a word, the scale of the exercises should be largely varied, and the pupils should learn through experience the limits of accuracy imposed and the consequent reduction of arithmetical labour. No calculation should be carried further than the number of decimals in the least accurate factor of it. Where the experimental error is clearly not less than 1 per cent. it is at least a waste of time to produce an answer containing seven or eight decimal places.

Again, an exercise like the finding of the weight of 1 c.c. of water, should be determined under various conditions of temperature (not exactly noted, say, hot, warm, cold), the results of the whole class when tabulated would indicate the influence of temperature, and open the way for the later consideration of expansion.

The record of the exercises is only less important than the exercises themselves. A laboratory book of uniform size, and with a fair proportion of pages of squared paper should be in the possession of every pupil. The method of performing an exercise should be described in a few sentences, the apparatus should be neatly sketched, and the results of observations entered in ink (arithmetical results tabulated in ink) at the time of working the exercise. The carrying of the results of weighing or of measurement and so on "in the head," or the writing of results on scraps of paper not only lead to loss and consequent waste of time, but will also counteract those habits of neatness and accuracy which are regarded as essential characteristics of the work.

It may occasionally be found advisable (owing to the nature of the experiment or to the character of the apparatus required) to perform an experiment in the class-room and to omit it from the laboratory course. Such cases must be exceptional, and they must be clearly separated from what is understood to be the work of the pupils. It is suggested that the right hand page of the laboratory book might be used for the pupils' work, and the left hand page for such exceptional exercises as are referred to here, and for theoretical considerations, conclusions, summaries, and so on. All exercises should be dated. Under no circumstances should measurements or calculations, or work of a similar character, be obtained from any source but the pupil's observations—not necessarily unaided, but largely his own. A good teacher will not overlook the opportunities which arise for emphasising the importance of good spelling, grammatical correctness, and careful selection of words, phrases, and sentences; but all these will be subsidiary to the main object—the discipline to be obtained from practice in physical methods.

The use of squared paper, especially for the "curving" of the relation between two varying quantities, is of much importance.

Squared paper should not only be used in connection with areas and, say, the verification of certain of Euclid's propositions; but the daily readings of the thermometer and of the barometer should be curved (the relation of the curves to the character of the weather may be brought out), and such observed results as the relation of the circumference to the diameter of a circle; of the area to the square of the diameter; of the volume to the weight of solids of the same substance, but of different dimensions; of the pressure to the volume of a gas, the temperature being constant; of the volume to the temperature, the pressure being constant; of the pressure to the boiling temperature of water; of the length of a pendulum to the square of the time of one vibration, and so on; should all be plotted and the curve drawn, and exercises given to bring out the value of the curve as an important aid to the increase of knowledge.

Not less frequently than the close of each series of lessons, which aims at bringing out a general principle, should the results be summarised and the conclusions indicated. At the same time it should be clearly set out how far the problem in hand has been solved, and how far the results or conclusions are inadequate.

It has not been considered advisable to suggest a third or a fourth year's course at the present moment. Such a syllabus had better come after some experience in the working of the system. It is hoped, however, that the first two years' courses will be found suitable for all pupils as an introduction to Physical or Natural Science; and that, however small the knowledge acquired, the pupil who works thoroughly through this course will gain a notion of the methods and ideas which will meet him at all stages of his further progress in any branch of Science, if not in any occupation in life.

II.—SUGGESTED SYLLABUS.

[NOTE.—In Schools taking advantage of these Regulations during the Session 1902, the Department would recommend the First Year's Course for all grades of pupils. Fuller treatment of the subjects would be expected of the more advanced Classes.]

FIRST YEAR.—INTRODUCTORY PHYSICS.

Measurement of Length.—English and metric measures of length: comparison of one system with the other by actual measurements. Measurements of lengths of straight and curved lines. Use of parallel blocks: calipers. Determination of π . Use of vernier.

Measurement of Area.—Units of area. Reasons for expression of areas as squares. Direct methods of determining the areas of regular figures. Determination of the area of parallelograms, triangles, polygons, by measurement of linear dimensions. Use of cardboard or other material in the determination of areas. Area of circle,

deduced from the relation between the weight of a circle of cardboard and the weight of a square of the same cardboard of side equal to the radius of the circle, and in other ways; indirect methods of determining π , using as figures the circle and the ellipse. Indirect methods of determining areas: use of squared paper: verification of some of the propositions of Euclid, as, *e.g.*, I. 47.

Measurement of Volume.—Units of volume. Reason for expression of volumes as cubes. Direct calculation of the volumes of regular solids from measurements of their linear dimensions. Use of fluid measures: burette, pipette, graduated cylinders, &c. Relation between the volumes of a pyramid and a prism of equal base and altitude: also of a cone and cylinder, proved (1) by measurement of water displaced, (2) by comparison of weights. Indirect measurement of volume.

Measurement of Mass and Density.—By measurements of volume and weight, find the weight of 1 c.c. of various solids and liquids. Weight of 1 c.c. of water. Definition of mass. Definition of absolute density. Definition of relative density or specific gravity. Proof of Archimedes' principle. Determination of the densities of solids heavier than water by weighing in air and in water. Flotation methods of determining density. *Hydrometers.*—Use of Nicholson's hydrometer to determine density. Density of a liquid determined by (1) burette and balance, and (2) specific gravity bottle, (3) weighing a heavy solid in water and in the given liquid. Hare's hydrometer: lactometer.

At this stage should follow some exercise on the "lever" and "pendulum": the lever, in order that the principles of the action of the balance may be understood: the pendulum in order that the pupils may not only understand the principle of the pendulum as a time-measurer, but also that they may be exercised in time measurements such as are required shortly afterwards in connection with "Heat."

Lever.—Equilibrium of a lever with two or more weights. Principle of moments. Weight of unknown body found by lever, and result tested by balance. Find the weight of the lever itself.

Measurement of Time.—Pendulum: relation between the number of vibrations in a given time and the length of the pendulum. Period of vibration independent of mass of "bob," and—within moderate limits—of the arc of swing.

Barometer.—Determine the weight of one litre of air, under conditions existing in room, by boiling out the air in a flask containing water, &c. Construction of barometer. Effect of introducing air, water, &c. into the barometric column. Reading of barometer. Standard barometer.

Boyle's Law.—Investigation of the relation between the pressure and the volume of a gas. Proof that the product PV is constant at constant temperature. Curve exhibiting the relation P/V . Exercise on curve.

Heat.—Effect of increase of temperature on volume of given mass of solid, liquid, gas—qualitatively. Determine, as far as possible, whether

expansion and contraction are regular or irregular. Regularity of expansion a means of determining *hotness* or temperature. The thermometer and its fixed points. Comparison of Centigrade and Fahrenheit thermometers. Conversion exercises unnecessary at this stage. Melting points: boiling points. Relation between boiling temperature and pressure (above and below atmospheric). Co-efficients of expansion. Conductivity and comparison of conductivities from observation of the temperature of melting wax. Newton's law of cooling. Effect of the nature of the surface on the rate of cooling of a body. Rate of absorption of dull and bright surfaces. Quantity of heat. Specific heat. Measurement of the specific heat of metals and of liquids. Put a Centigrade thermometer in a mixture of ice and water over a slow flame, and record the temperature every thirty seconds until the water has boiled for three minutes. Curve. The physical meaning of the horizontal parts of the curve. Effect of dissolving nitre and ammonium nitrate in water. Latent heat.

Should time permit, the Course may be extended into Mechanics, or into some *elementary* exercises on Sound or Light, or Magnetism and Electricity.

SECOND YEAR.—INTRODUCTORY CHEMISTRY.

The exact starting point of the Second Year's work will depend on the extent of the First Year's Course. But the Second Year must be mainly devoted to Chemistry.

Laboratory work should begin with the observation of the apparent differences (form, colour, &c.) of some common and some laboratory substances.

The study of the Bunsen burner, and exercises on evaporation, solution, distillation, crystallization, and filtration would follow. Solubility; solubility as affected by temperature; solubility curves.

Action of Heat on the Metals.—Lead, zinc, copper, tin, magnesium and iron: observe changes in appearance and weight.

Further Study of the Action of Heat on Iron.—Comparison of iron (bright) with rusted iron, to bring out (qualitatively) the physical differences. Bright iron easily converted into the dull earthy form. Conditions of rusting: in dry air? in moist air? in water free from air? Recall the experiments on density, and find accurately the density of iron and of iron rust. Weigh a quantity of iron filings; rust in enclosed space; weigh again. Increase of weight due to? Test residual air, to bring out the alteration in volume and properties.

Do other metals rust: copper, lead, mercury? Recall previously ascertained results of action of heat on metals.

Try *Phosphorus*. Investigate what happens when phosphorus burns in air: alteration in phosphorus? alteration in air? Compare with "iron" results. Relative volumes of the active and inactive constituents

of air. Preparation of the active constituent oxygen from chlorate of potash and from chlorate of potash and manganese dioxide ; properties ; oxides.

Action of Heat on common laboratory substances.—Among others on common salt, blue vitriol, nitre, green vitriol, in this last case leading up to production of Oil of Vitriol.

Action of Oil of Vitriol on Common Salt and on Nitre.—Preparation of the three common acids. Qualitative study of caustic soda, caustic potash, and ammonia. Salts.

Action of Water and of Acids on Chalk.—Collection of gas evolved ; examination of properties ; measurement of volume, and weight of acid, obtained from one gram of chalk.

Action of Heat on Chalk.—Collection and examination of gas evolved ; identify with that obtained from acid. Observation of the residue ; lime, lime water. Lime-water (an alkaline substance) and gas from chalk.

Burn carbon in oxygen. Carbonic acid gas and lime water. Identify carbonic acid gas with gas evolved from chalk.

Presence of carbonic acid gas in air. Synthesis of chalk.

Action of acids on Carbonates.

Action of Acids on the Metals.—Lead, zinc, copper, tin, magnesium, iron. Prepare, collect, and examine the inflammable gas obtained by treating zinc with dilute sulphuric acid. Burn the gas in air, and identify the product with water. Study of water. Further study of air.

In these exercises much scope will have been found for the use of the balance. For example, in comparing the properties of air, oxygen, and hydrogen, the weight of a litre of each under (a) laboratory, and (b) (by calculation) N. T. P. conditions should be found. Again, such exercises as finding the volume at N. T. P. (and, by calculation, the weight) of hydrogen displaced from (a) dilute sulphuric acid by 1 gram of zinc, (b) dilute sulphuric acid by 1 gram of magnesium, (c) dilute hydrochloric acid by 1 gram of magnesium, (d) strong hydrochloric acid by 1 gram of aluminium ; the weight of (a) zinc required to displace one gram of hydrogen from dilute hydrochloric acid, (b) magnesium, &c., from dilute hydrochloric, (c) aluminium, &c., from strong hydrochloric acid : and determination of the weight of oxygen which combines with one gram of hydrogen, would lead to much exactness in the use of the balance, and to such fundamental generalizations as the law of constant composition and of equivalents.

No attempt should be made to teach the Atomic theory, to write formulæ, or to give equations for reactions. The Course is intended to be an experimental one ; but exercises in classification will arise under such headings as elements, compounds, oxides, carbonates, acids, alkalis, and so on.

The pupil will now be in a position to take up the study of one or more of the main branches of Physical or Natural Science; and it is intended that the work of the third year should be devoted to at least one such branch and that of the fourth to another.

III.

COURSE IN DRAWING.

SUGGESTED SYLLABUS.

[NOTE.—The present Syllabus is issued merely as a guide to the kind of work that would be expected. Pupils would be allowed to take successive divisions of A in successive years; and a division of B might be taken in parallel with (or, after the first year, in exchange for) a division of A; but the divisions of A and B must be taken in the order given, and payments would not be twice made on the same division in the case of any one pupil.

In the first year of work under these Regulations, pupils who are qualified, may take up the Syllabus at any stage. But the payments will be those for the first year of the Course.

The Department intend to issue at an early date an illustrated Syllabus, with suggestions regarding the treatment of the different subjects.]

A.

I. Elementary Freehand Drawing, with the addition of simple exercises in Design. Drawing of Objects in Outline. Memory Drawing.

II. Continuation of Freehand in outline from Casts of Classic Ornament and from good examples of Celtic Ornament. Simple exercises in Design based on natural forms. Model Drawing from geometrical solids—cube, prism, cylinder, cone, pyramid, ring, vase—not more than two models and the board in one group. Object Drawing. Memory Drawing.

III. Drawing in Light and Shade from a Cast; or Modelling; or both.

IV. Design or Modelling; or both.

B.

I. PRACTICAL GEOMETRY.—The instruction may be limited to problems involving simple constructions in the following:—

E

(1.) Constructions required in geometrical pattern drawing, simple tracery, and mouldings.

(2.) Construction of regular polygons—general method. Inscribed and circumscribed circles. Simple cases of rectilinear figures described in or about other rectilinear figures.

(3.) Circles—passing through three points—touching three lines. Tangent lines and circles to one or two circles.

(4.) Construction of irregular polygons from given sides, angles, and diagonals. Similar figures—equal, enlarged, or reduced.

(5.) Plain scales and scale of chords. Proportional division of lines, including the mean, third, and fourth proportionals. Reduction of polygons to triangles of equal area. Construction of parallelogram or square equal to a given triangle or other rectilinear figure.

II. Practical Geometry. Plans, elevations, and vertical or horizontal sections of cubes, prism, pyramid, cone, and sphere in simple positions.

III. Application of I. and II. to common objects and to simple machine or building details. Drawings from measurements made by the pupils themselves.

IV. Solid Geometry.

1. The Principles of Projection. Definitions of terms in general use, such as ground line, or *xy* line, projector, plan, elevation, section, trace, planes of projection, &c.

2. Representation of a point in space, by its plan and elevation, in all possible positions with respect to the planes of projection.

3. Representation of vertical and horizontal lines.

4. Given the plan and elevation of a line, to determine :—

(a.) The traces of the line.

(b.) Its true length, and its inclination to each plane of projection. Conversely determine the projections of a line when its inclination to each of the planes of projection is given.

(c.) A new elevation of the line on any assigned ground line.

5. Determination of the real angle between two lines which meet.

6. Representation of parallel lines.

7. Simple problems relating to lines.

8. Representation of a plane by its traces :—

(a.) At right angles to one plane of projection, and inclined at any angle to the other.

(b.) Perpendicular to both planes of projection.

(c.) Parallel to the ground line.

(d.) In any position with respect to the planes of projection.

9. Given the traces of a plane, to determine its inclination to each of the planes of projection.

10. Determination of the intersection of two given planes.

11. Determination of the intersection of three given planes.

12. Determination of the real angle between the traces of a given plane.

13. Determination of the angle between two given planes.

14. Determination of the intersection of a line and a plane.

15. Determination of the projections and real length of a perpendicular let fall from a given point on a given plane.

16. Determination of horizontal lines, and of lines of given inclination, in given planes.

17. Simple problems relating to planes.

Intermediate Education Board for
Ireland.

RULES OF EXAMINATIONS

PROGRAMME OF EXAMINATIONS
FOR 1902.

PRESENTED IN PURSUANCE OF ACT

41 and 42 Vict., cap. 66, sec. 6, and 63 and 64 Vict.
cap. 43, sec. 1

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